

HOW TO ENROL

- **UCD Graduate Students:**

Contact Communications and Education team at Conway Directorate with completed registration form, available at www.ucd.ie/conway



At UCD Conway Institute, we are committed not only to the creation of new knowledge and advances in biomolecular and biomedical research, but also to the education and training of future generations of scientists. In line with international best practice, our postgraduate education programme has been developed in response to the changes in knowledge and skills demanded of graduates in a rapidly expanding world market.

UCD Conway Institute aims to provide students with the core skills that are essential for success in laboratory-based graduate research programmes and transferable to further graduate research and training or to employment.



UCD
Belfield, Dublin 4

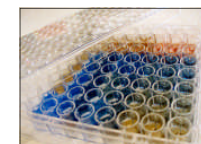
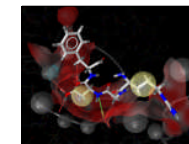
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UCD CONWAY INSTITUTE
OF BIOMOLECULAR &
BIOMEDICAL RESEARCH

CNWX 40100

ADVANCED
RESEARCH
SKILLS FOR
BIOLOGICAL
SCIENTISTS



WWW.UCD.IE/CONWAY

CNWY 40100: ADVANCED RESEARCH SKILLS



Module

Overview:

This course is designed to provide post-graduate stu-

dents involved in laboratory-based research in the biological sciences with:

- The analytical and statistical skills to generate meaningful results from experimental data
- Information on how to patent and commercialise research outcomes
- An understanding of the ethical and professional obligations of scientific research
- An awareness of the broader social impact of scientific research and the ability to articulate and discuss this aspect of their work



What will I learn?

On completion, students should be able to:

Data Analysis:

- Understand what type of statistical analysis is appropriate to different data sets and produce and interpret data summaries
- Analyse experimental datasets for differences and associations between groups

Commercialisation and Patenting of Research:

- Understand the steps from invention disclosure to granting of a patent
- Identify the criteria that an industrial partner uses when evaluating possible collaboration / licensing opportunities

Integrity in Scientific Research:

- Understand ethical issues and obligations relating to access to confidential information obtained in a professional capacity
- Be familiar with the obligations involved in collaboration with industrial collaborators and sponsors
- Understand the need for high levels of integrity and transparency in interpreting research results

Science and Society:

- Address and discuss the role of science in society in the context of current issues of social concern.

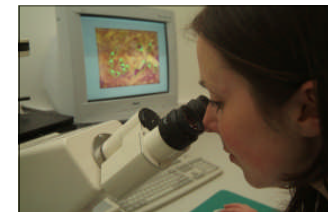
Practical Information:

ECTS Credits: 5

Timing: 10x3 hours in Semester 2

Assessment: Ongoing assessment exercises set for each segment of the course.

Grade: Pass/Fail



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