



HOW TO ENROL

Contact Elaine Quinn, Communications & Education, Conway Directorate with a completed module registration form, available at <http://www.ucd.ie/conway/>

Registration for this module closes on
June 5th 2011

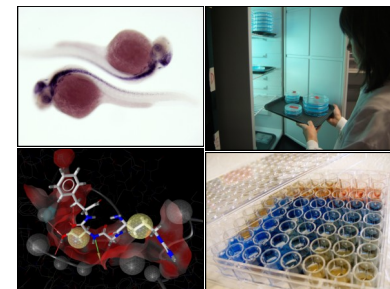


At UCD Conway Institute, we are committed not only to the creation of new knowledge and advances in biomolecular and biomedical research, but also to the education and training of future generations of scientists. In line with international best practice, our graduate education programme has been developed 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.

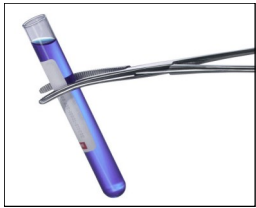
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CN W Y 4 0 1 3 0
**FLOW
CYTOMETRY—
PRINCIPLES &
PRACTICE**



Investing in Your Future

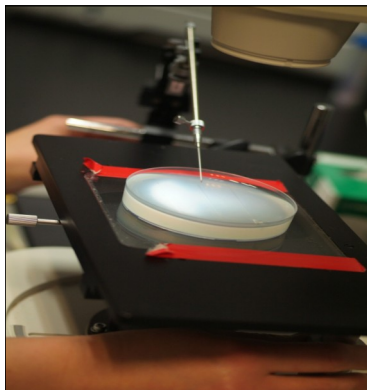
CNWY 40130: FLOW CYTOMETRY- PRINCIPLES & PRACTICE



Module

Overview:

This module is designed for students who wish to understand and become critically aware of the principles, practice and applications of rapidly developing imaging technologies. Students will be introduced to flow cytometry principles & data analysis as well as the associated instrumentation and will be exposed to flow cytometry applications in research such as in apoptosis, cell cycle, immunology & phagocytosis.



What will I learn?

On completion, you will be able to:

- Demonstrate knowledge and understanding of the principles of flow cytometry (FC)
- Obtain and critically assess FC data using specific analysis software applications and pre-acquired samples
- Integrate knowledge of good laboratory practice in instrument usage, sample preparation, quality control, & troubleshooting
- Integrate knowledge of applications into protocol design for FC analysis and carry out sample analysis using standard (and/or own) samples and protocols
- Be critically aware of uses of FC outside the academic research setting
- Be familiar with allied technologies such as high content analysis, live cell imaging, confocal and fluorescent microscopy and be able to critically assess the synergistic benefits of flow cytometric analysis in combination with these.

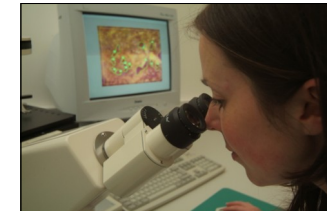
Practical Information:

ECTS Credits: 2.5

Timing: June 11th - 15th 2012

Assessment: Combination of problem-based assessment, competency in usage of technology, sample preparation and analysis.

Grade: Distinction/Pass/Fail



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BIOMEDICAL RESEARCH

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