



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

September 13th 2011

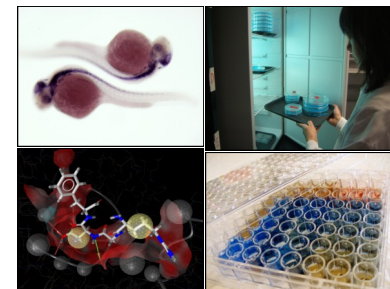


At UCD Conway Institute, we are committed not only to the creation of new knowledge and advances in biomolecular and biomedical research, but also to the education and training of future generations of scientists. In line with international best practice, our graduate education programme has been developed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

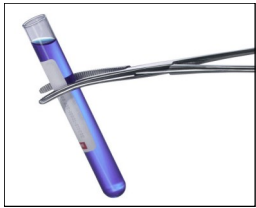
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CN W Y 4 0 1 2 0
ADVANCED
BIOLOGICAL
IMAGING



Investing in Your Future

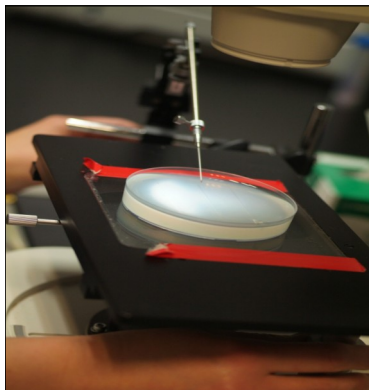
CNWX 40120: ADVANCED BIOLOGICAL IMAGING



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. Particular focus is given to white and fluorescent light-based imaging approaches.



What will I learn?

A series of lectures will inform students about the concepts of imaging and microscopy, specifically;

- Application of histology, immunohistochemistry and immunofluorescence;
- Basics of confocal microscopy, light sheet microscopy, super resolution microscopy, multi-photon microscopy, high content screening microscopy;
- Techniques in light microscopy and live cell imaging;
- Relationship between light microscopy and electron microscopy.

This will be complimented by a series of 5 practical sessions covering;

- Bright field microscopy
- Immunohistochemistry / basic fluorescence microscopy
- Point scanning confocal microscopy
- High content screening microscopy
- Live cell imaging (spinning disk)

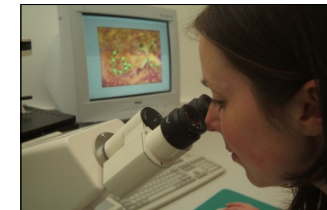
Practical Information:

ECTS Credits: 5

Timing: Sept 15th — Oct 7th 2011

Assessment: Presentation on the application of knowledge to individual research projects.

Grade: Letter grade



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BIOMEDICAL RESEARCH

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