



## 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 13<sup>th</sup> 2012**

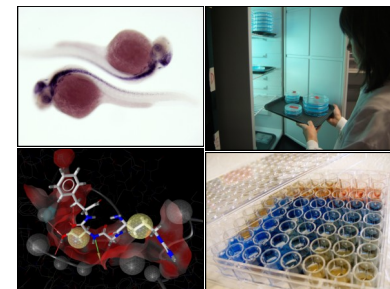


At UCD Conway Institute, we are committed not only to the creation of new knowledge and advances in biomolecular and biomedical research, but also to the education and training of future generations of scientists. In line with international best practice, our graduate education programme has been developed 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 4 0**  
**EMERGING 'OMICS'  
TECHNOLOGIES**



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Higher Education Authority  
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[WWW.UCD.IE/CONWAY](http://WWW.UCD.IE/CONWAY)

## CNWY 40140: EMERGING 'OMICS' TECHNOLOGIES



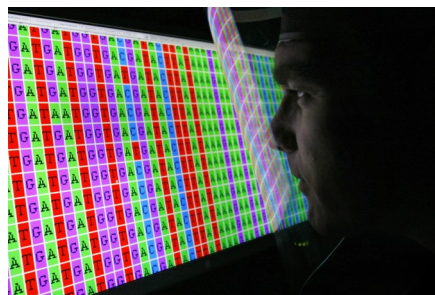
### Module Overview:

This module is designed for students who wish to understand principles, practice and applications of new “omics” technologies and their impact on modern biology, as well as to critically assess their applications to problems of clinical and commercial relevance. Metabolomics: The students will become familiar with metabolomic techniques and applications. An overview of the currently used techniques will be given and applications will focus on nutrition and toxicology.

The module will be delivered in 5 stand-alone blocks, each one composed of 3hr seminar-style sessions (mornings) and 4hr practical exercises/dry sessions on study design (afternoons).

### What will I learn?

- Glycoprotein biology & function
- Complex glycan release & analysis
- Clinical & industrial applications of glycomics science
- Techniques to study protein-protein interactions
- Lipidomics, lipid analysis techniques & applications
- Principles of metabolomics & related techniques
- Metabolomic data analysis strategies
- Metabolomic applications



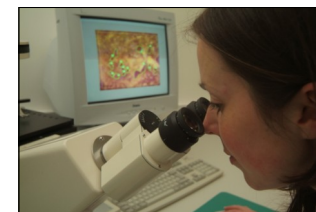
### Practical Information:

*ECTS Credits: 5*

*Timing: June 18th-22nd 2012*

*Assessment: End- course problem-based assessment and MCQ*

*Grade: Letter grade*



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