

Module Descriptor for CNWY40170 in 2014

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Conway Institute of Biomolecular & Biomedical Research

Short Title	Long Title	
Fundamental Biological Imaging	Fundamental Biological Imaging	

Level	Credits	Semester	Passing Grade	Available on Blackboard ?	Module Coordinator	Status	Last Modified
4	2.5	Semester One	40 %	Yes	Jeremy Simpson	Continuing Module	26 Jul 2013

Total	Core /Option	In Prog	Gen	Intl Places
Places			Electives	
40	40	0	0	0

Module Description

This module is designed for students who wish to understand and become critically aware of the basic principles, practice and applications of rapidly developing imaging technologies. Particular focus is given to white and fluorescent light-based imaging approaches. A series of lectures will inform about the concepts of imaging and microscopy; application of histology, immunohistochemistry and immunofluorescence; basics of wide-field microscopy, confocal microscopy and high content screening microscopy; techniques in light microscopy and live cell imaging; and also the relationship between light microscopy and electron microscopy. Structured workshop sessions will also allow the students to visually experience the operation of various pieces of microscopy equipment.

Learning Outcomes

On completion of this module students will have thorough insight into the variety of imaging and microscopy approaches available to the life sciences. In addition they will have a basic understanding of key issues in the design and execution of imaging-based experiments as used to study biological samples.

Workload

Туре	Hours
Laboratories	8
Lectures	10
Autonomous Student Learning	45
Total	63

Assessment Details

Description	Timing	Score By	% Final	In Blackboard
			Grade	?
Exam to be held at host institute of student	Varies	LET	100	Υ
Total			100	

Module Resits

Resit Type	Duration - Hours	Timing Weeks
In-semester assessment	2	VAR

Module Remediation Strategies

Remediation
If you fail this module you may repeat, resit or substitute where permissible

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