



School of Biomolecular and Biomedical Science

- Biochemistry and Molecular Biology
- Genetics
- Microbiology
- Neuroscience
- Pharmacology



Prof Cormac Murphy
Head of School



Prof Geraldine Butler
Head of Teaching and Learning



Usual progression route

- BMOL20090 Molecular Genetics and Biotechnology
- BMOL20100 Biomolecular Sciences
- BMOL20060 Biomolecular Lab Skills 1
- *BMOL20070 Biomolecular Lab Skills 2
- CHEM20090 Chemistry for Biology

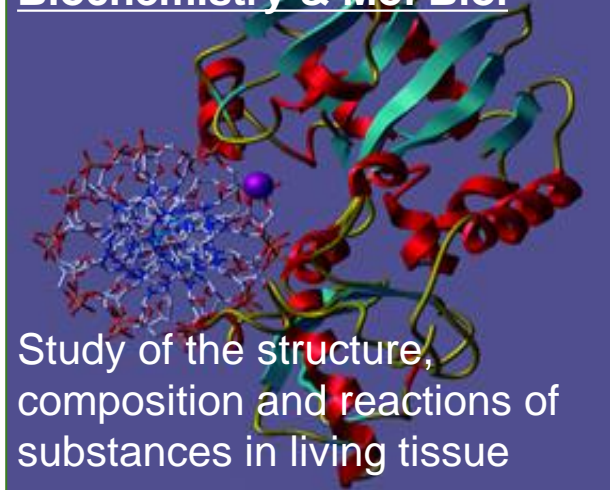
(*option for Genetics)

- Biochemistry
 - BIOC20060 Biochemistry in Action
- Genetics
 - GENE20020 Principles of Genetics
- Microbiology
 - MICR20050 Microbiology in Medicine, Biotechnology and the Environment
- Neuroscience
 - NEUR20050 Principles of neuroscience
- Pharmacology
 - PHAR20040 Pharmacology

If choose Pharmacology and Neuroscience, must choose a third that is NOT Physiology

What will you study?

Biochemistry & Mol Biol



Study of the structure, composition and reactions of substances in living tissue

Genetics



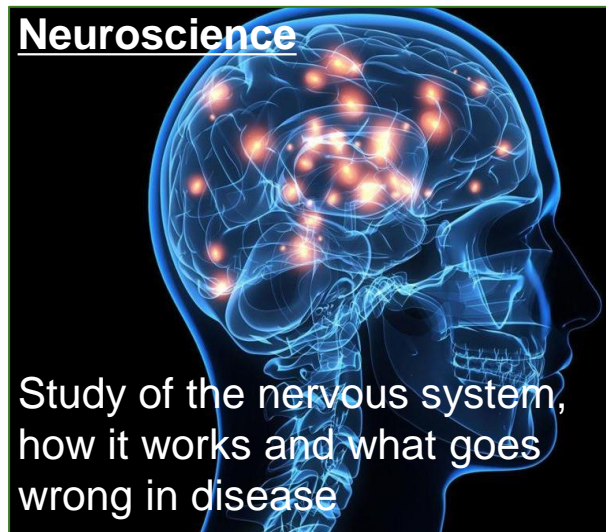
Study of genes, genetic variation and inheritance in living organisms

Microbiology



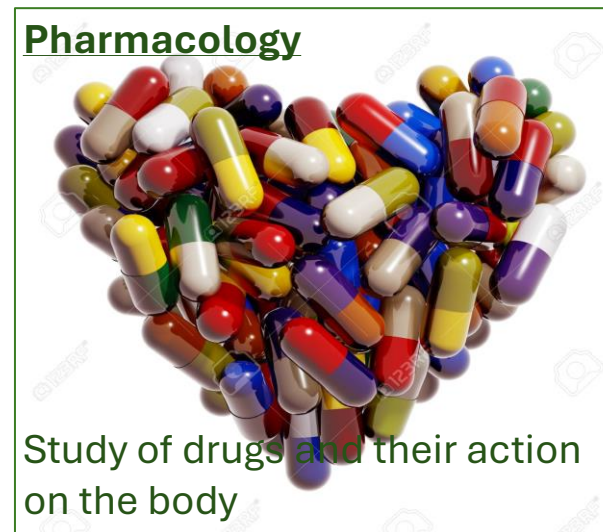
Study of microorganisms in the environment, in health and disease

Neuroscience



Study of the nervous system, how it works and what goes wrong in disease

Pharmacology



Study of drugs and their action on the body

Learning opportunities: two undergraduate research modules

Undergraduate Genetics and Microbiology students isolate and name new yeast species from soil



The New York Times

Before Beer Became Lager, a Microbe Made a Mysterious Journey

Scientists found a relative of a parent of lager yeast in soil on an Irish university's campus, which could help to track how it ended up in Bavaria.

First European discovery of a lager yeast parent by UCD scientists

Science & technology | Beer

A find by a student in Ireland plugs a gap in the history of lager

But the trail still leads back to Patagonia



The
Economist

Open to: Genetics, Microbiology and Biochemistry

THE IRISH
Sun



News > Irish News

BLACK AND GOLD Ireland's secret lager link revealed as Dublin boffins make 'amazing discovery' and plot next move



UNIVERSITY OF
COPENHAGEN



Internships and Erasmus/Exchange programmes



RISE Germany

Deutscher Akademischer Austauschdienst
German Academic Exchange Service

Summer after Stage 3 and during Stages 3 and 4

Opportunities once you have a Biomedical Science degree

Industry

Examples:

- *Biotechnology companies*
- *Pharmaceutical companies*
- *Genomics companies*

Science Communication

Examples:

- *Scientific publications*
- *Mainstream journalism*
- *Science-medical interface*

Clinical Research

Examples:

- *Hospital laboratories*
- *Forensic science labs*
- *Drug development research*

Scientific Advisory

Examples:

- *Environmental Protection Agency*
- *Not-for-profits*
- *Drug regulatory bodies*

Research regulation

Examples:

- *Biological Patents*
- *Clinical trial consultancy*
- *Toxicology assessment*

Graduate studies

Examples:

- *M.Sc.*
- *Ph.D.*
- *Additional professional qualifications*

Useful skillset for non-research careers

- *Advanced learning*
- *Problem solving*
- *Presentation of research findings*
- *Experience with both team work and independent research*