

UCD SCIENCE 2022



School of Biomolecular & Biomedical Science (SBBS)

ucd.ie/sbbs

Moving from Stage 1 to Stage 2 Science



Professor John O'Connor
Head of Teaching & Learning



@UCD_SBBS



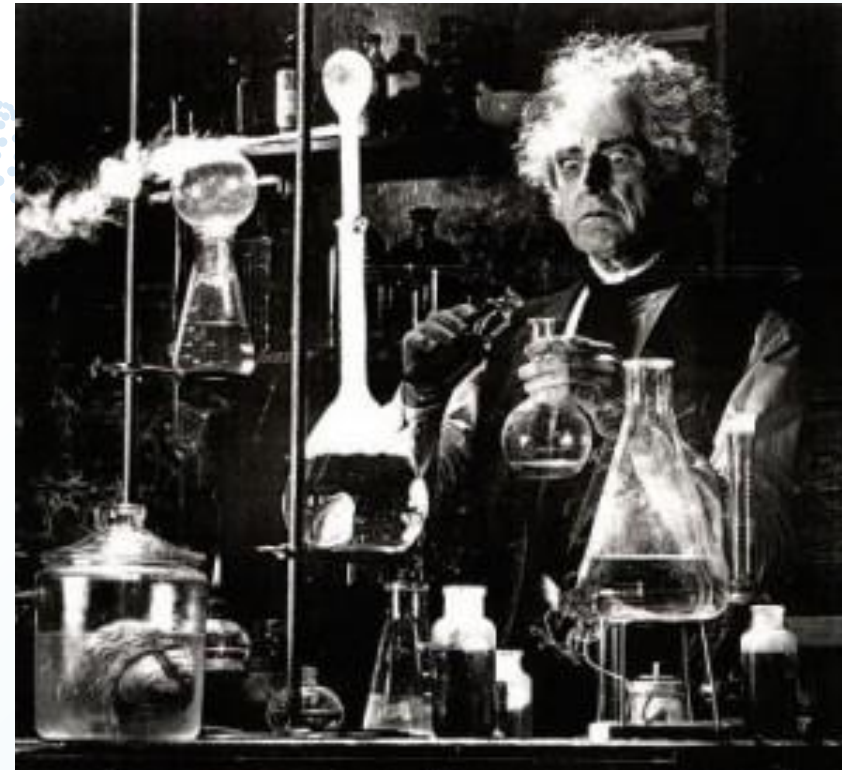
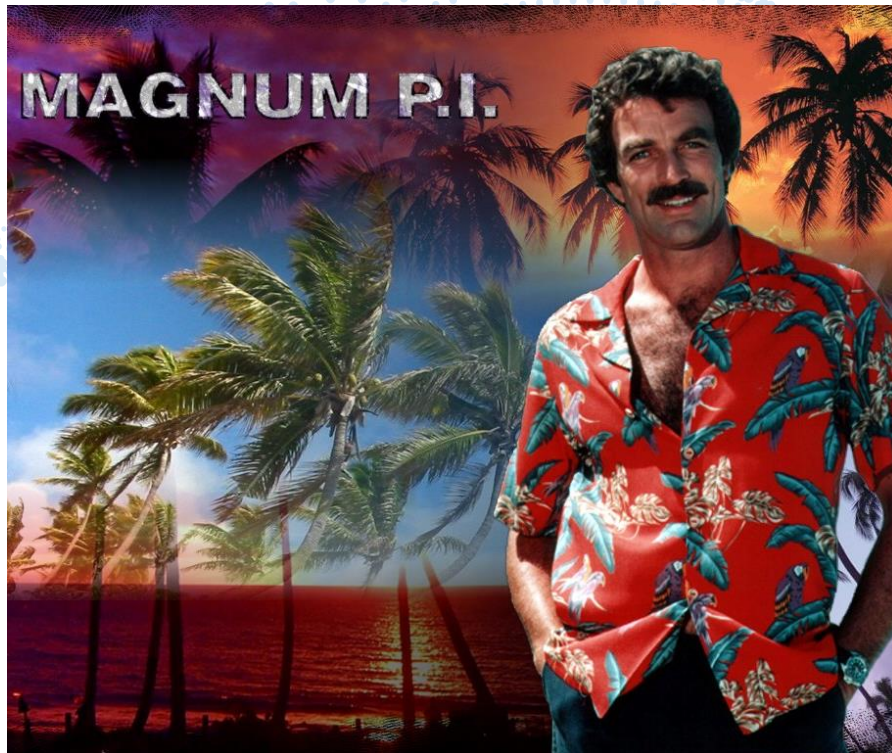
UCD School of Biomolecular
& Biomedical Science



@SBBSUCD

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Biomedical Degrees at UCD

Biochemistry	Microbiology	Pharmacology
Genetics	Neuroscience	Physiology
Environmental Biology	Plant Biology	Biology & Maths Education
Cell & Molecular Biology	Zoology	

11 Subjects

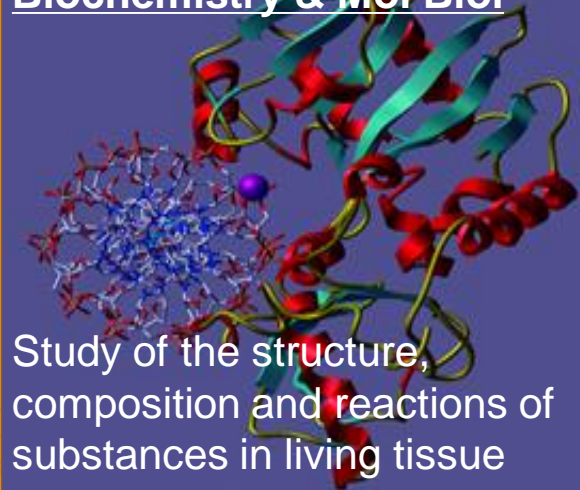
Common Core
First Year

Min. 3 subjects of
your choice in
2nd Year

Study abroad and
field trips

What will you study?

Biochemistry & Mol Biol



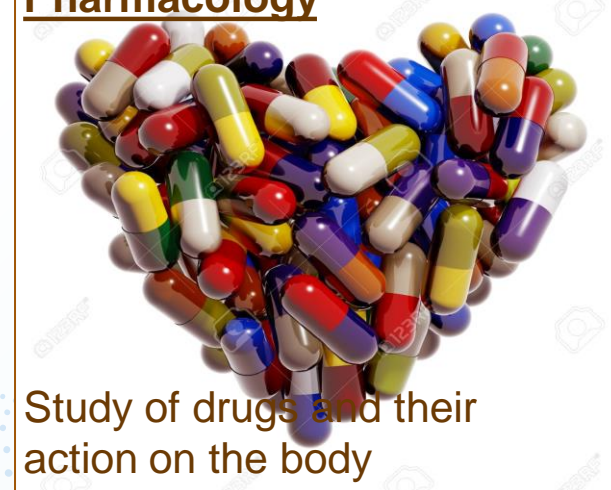
Study of the structure, composition and reactions of substances in living tissue

Microbiology



Study of microorganisms in the environment, in health and disease

Pharmacology



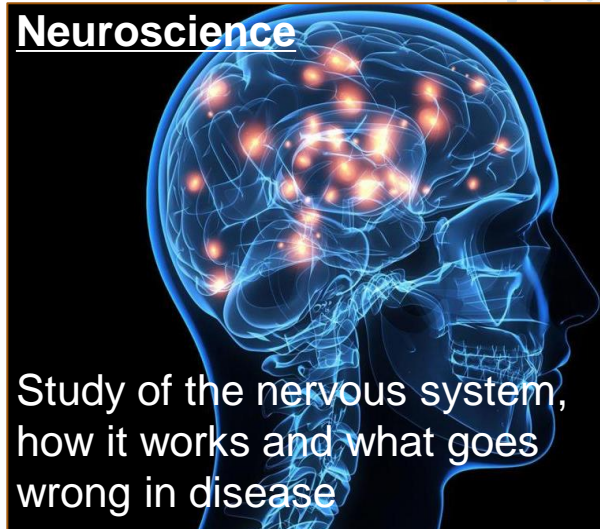
Study of drugs and their action on the body

Genetics



Study of genes, genetic variation and inheritance in living organisms

Neuroscience



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

Studying Science at UCD Stage 2

Classes

Take core modules on the principles of each subject
Some 'core' subjects, others which you are free to choose

Examples:

- *Principles of Genetics*
- *Principles of Neuroscience*
- *Pharmacology:Biomedical Science*

Lab-based Research

Experiments introducing the fundamental practical skills needed for careers in research

Examples:

- *Isolation of DNA*
- *Examining resistance in bacterial strains*
- *Studying liver enzyme function*

Broader Research Skills

Training in data mining, scientific analysis and scientific communication

Examples:

- *Biomolecular Lab Skills (working alone or in pairs to analyse results)*
- *Genetics + Biotechnology (small groups research a subject and present findings)*

End of Stage 2 = Select your chosen area of study (Advisory session with academic staff)

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 Legality

Examples:

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

Graduate studies

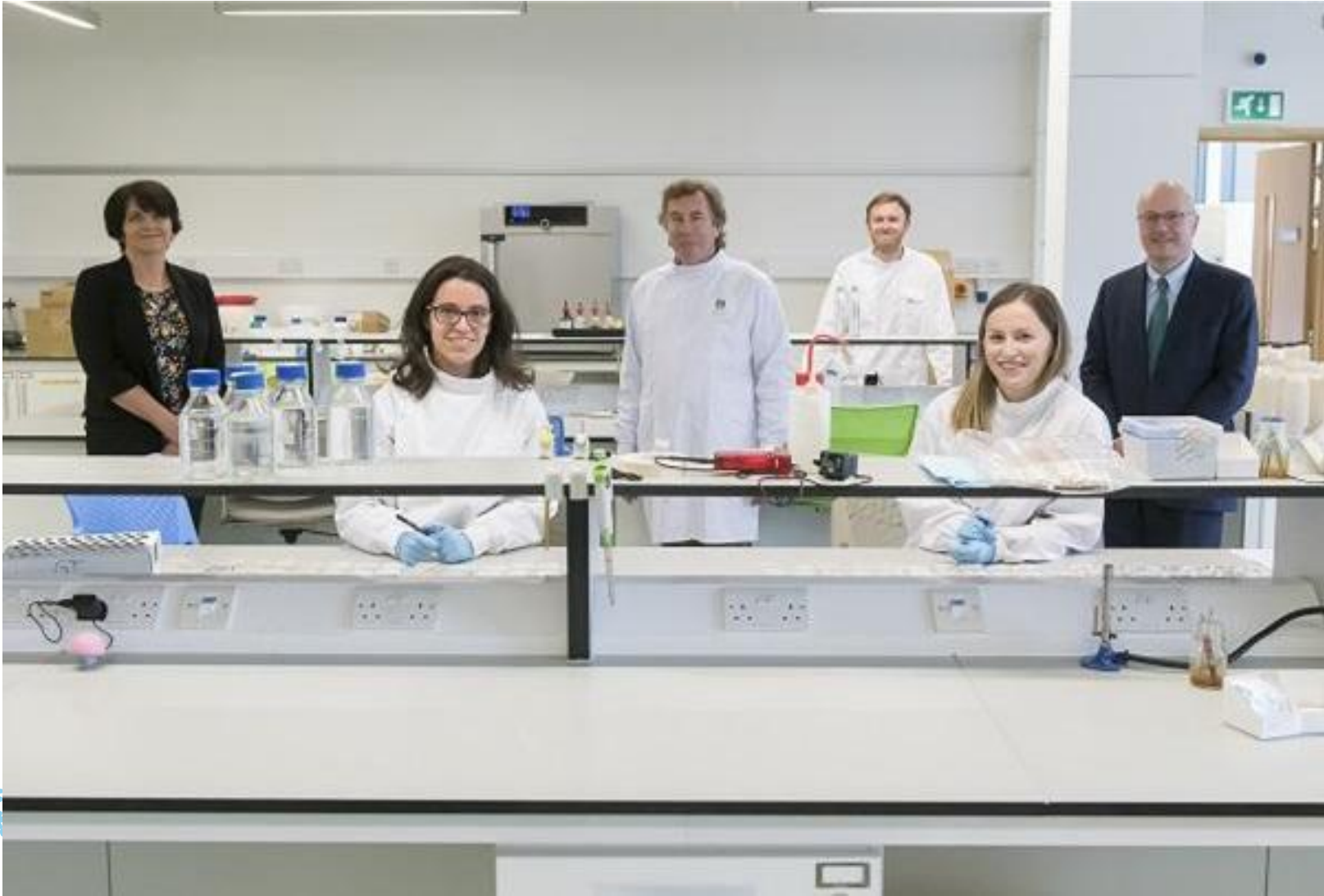
Examples:

- *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*

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