Pharmacology

SCU1 Option: Biological, Biomedical and Biomolecular Science (BBB)



The process of cell changes called EMT (epithelial mesenchymal transdifferentiation) that occur when kidney epithelial cells are treated with drugs. Image by Tara McMorrow and Eric Campbell © UCD

- Study how drugs work at a molecular level, what the body does to drugs and the effects of drugs on the different body systems
- Understand the actions of drugs used in the cardiovascular, respiratory, renal, endocrine and central nervous systems

My keen interest in biomedical science and healthcare led me to choose

Pharmacology at UCD. I acquired a strong scientific background during my degree, which facilitated a smooth transition into my postgraduate studies in my MSc Biotechnology & Business (UCD). I obtained an internship in a life science venture capital firm upon graduating from my MSc and was subsequently made permanent.

Jennifer McKeever, Graduate

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international

Sar	nple pathway for a c	degree in Pharmac	ology *	
YEAR 1	ENGAGE WITH	THE PRINCIPLES		
BIOLOGY Topics include:	CHEMISTRY Topics include	· · · · · · · · · · · · · · · · · · ·	AATICS aclude:	
 Biology in Action Life on Earth Cell Biology & Genetics Biomedical Sciences 	▶ The Basis of Organ Biological Chemistry		s for the Elective	
YEAR 2	CHOOSE YO	UR SUBJECTS		
PHARMACOLOGY Topics include:	PHYSIOLOG Topics include		DGY include:	
 Chemistry for Biologists Molecular Genetics and Biotechnology Metabolic and Immune Systems Biomolecular Laboratory Skills Pharmacology: Biomedi Science of Drugs 	 Organs and System Physiology 		Microbiology: Two nvironment nology module:	
YEAR	FOCUS ON YOUR	CHOSEN SUBJECT		
	PHARMACOLOG	Y – Topics include:	Y	
 Cell Signalling Drugs used in CNS diseases Advanced CNS Pharmacology Drug action in body systems Chemotherapeutic agents Molecular Pharmacology 				
YEAR	REFINE YOUR	KNOWLEDGE		
		Y – Topics include:		
 Advanced Neuropharm Adv. Cardiovascular Pharmacology Finding new Pharmaceu 	acology	blogy of Cancer Dr rapies De al Pharmacology Ph	ug Discovery & evelopment armacology Research Projec	
	BSc (Honours)	Pharmacology		
MSc (Taught)	PhD	Industry	Conversion Courses	
 MSc Biotechnology MSc Biotechnology & Business MSc Biotherapeutics MSc Toxicology & Regulatory Affairs 	 Students can pursue a PhD in universities in Ireland or abroad in areas as diverse as drug development and biomedical science 	 Pharmaceutical Companies Drug regulatory bodies such as the Irish Medicines Boarc Biotechnology sector Chemical safety and toxicology 		

*See pages 4 and 5 for information on the terminology used above. Potential combinations shown here are examples only and are not guaranteed by UCD. Topics are subject to change each year.

UCD School of Biomolecular and **Biomedical Science**

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Management