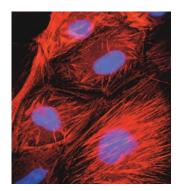
Pharmacology

CAO code: DN200 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

Sami	ple pathway for a o	degree in P	harmacol	ogv *		
YEAR			harmacon	-6)		
1	ENGAGE WITH	THE PRINCI	PLES			
BIOLOGY Topics include:	CHEMISTRY Topics include		MATHEM. Topics inc			
 Biology in Action Life on Earth Cell Biology & Genetics Biomedical Sciences 		 The Basis of Organic and Biological Chemistry Mathematics f Biological & C Sciences 			Elective modules • One Small- Group Project	
2 CHOOSE YOUR SUBJECTS						
PHARMACOLOGY Topics include:	PHYSIOLOG Topics include		MICROBIOLOGY Topics include:			
 Chemistry for Biologists Molecular Genetics and Biotechnology Metabolic and Immune Systems Biomolecular Laboratory Skills Pharmacology: Biomedica Science of Drugs 	 Introduction to Phy Organs and System Physiology 	ns I	 Principles of Microbiology: Medicine, Environment and Biotechnology 		 Two Elective modules 	
YEAR FOCUS ON YOUR CHOSEN SUBJECT						
	PHARMACOLOC					
 Cell Signalling Biostatistics Drug action in body syste Chemotherapeutic agents 	rugs used in Cl dvanced CNS F oxicology	gs used in CNS diseases Two anced CNS Pharmacology Elective				
YEAR REFINE YOUR KNOWLEDGE						
PHARMACOLOGY – Topics include:						
 Advanced Neuropharmacology Adv. Cardiovascular Pharmacology Finding new Pharmaceuticals Adv. Pharmacology of Cancer Emerging Therapies Advanced Renal Pharmacology Gene Regulation Drug Discovery & Development Pharmacology Research Project 						
	BSc (Honours)	Pharmacolo	ogy			
MSc (Taught)	PhD	Indu	ustry	Conversio	n Courses	
 MSc Biotechnology MSc Biotechnology & Business MSc Biotherapeutics MSc Toxicology & Regulatory Affairs 	Sc BiotechnologyPhD in universities inBusinessIreland or abroadSc Biotherapeuticsin areas as diverseSc Toxicology &as drug development		 Pharmaceutical Companies Drug regulatory bodies such as the Irish Medicines Board Biotechnology sector Chemical safety and toxicology 		 Professional Master of Education (PME) Graduate Veterinary Medicine Graduate Medicine Master of Business Administration Master in Management 	

*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.

www.ucd.ie/myucd/

26

pharmacology

Associate Professor John Crean UCD School of Biomolecular and Biomedical Science

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