Fiche UE M2 MU5BIN22

Hot topics: transdisciplinary approaches to neurodegenerative diseases

Responsable	Helene Cheval					
Co-responsable	Bassem Hassan					
Descriptif	***Parcours type***	***Option***	***Niveau***	***Semestre d'enseignement***	***ECTS***	***Effectif maximal***
	Neurosciences	iMIND	M2	S3	6	iMIND students
Modalités pédagogiques	***Volume horaire Cours***	***Volume horaire TD***		***Volume horaire TP***	***Présentiel/Distanciel***	
					Distanciel	
Objectifs	Neurodegenerative diseases are a major challenge for the health sector and it will only become increasingly so. To tackle the complexity of these diseases, scientists need to have an interdisciplinary approach and the broadest possible points of view. In this module, to get an appreciation for the multidisciplinary aspect of research in the field of neurodegenerative diseases, student will achieve a project research through analysis of scientific articles under the supervision of an expert tutor in the field. Topics of the projects will cover the latest advances in neurosciences, specifically regarding neurodegenerative pathologies. Students will be exposed to notions of fundamental, translational and clinical research by attending conferences at the Brain and Spine Institute, where they will participate to discussions with the international scientists presenting.					
Thèmes abordés	Scientific articles analysis, discussions with tutors and international experts, elaboration of a cross between research and library project. The module will be validated with a written component (one paragraph summary of each conference) and an oral presentation of the project, which will be based on a literature search and a critical analysis of a recently published research paper.					
Compétences acquises à l'issue de l'UE (concepts, méthodologie et outils)	- Suggest experimental approaches to answer scientific issues - Get an appreciation for how to address neurodegenerative questions theoretically and experimentally, in humans or animal models - Elaborate and organise the interpretation of research data - Present in a synthetized manner - Learn how to manage bibliography - Critically analyse the scientific literature - Master scientific literature in English that is relevant to neurodegenerative diseases - Master approaches and tools used in the study of neurodegenerative diseases - Evaluate the validity of these approaches and tools					
Prérequis						
Modalités d'évaluation/100	***Ecrit***	***Oral***		***CC***	***Autre***	
	20	80				
Langues utilisées	***Dans les cours, TD, TP***			***Dans les documents, supports***		
	Anglais			Anglais		
Localisation	ICM/Sorbonne Université					