

Fiche UE MU5BIN20

Neurophysiology of perception

Responsable	Grégory Gauvain				
Co-responsable	Olivier Marre				
Descriptif	Parcours type	Option	Niveau	Semestre d'enseignement	ECTS
	Neurosciences	Sciences de la Vision	M2	S3	6
Modalités pédagogiques	Volume horaire Cours	Volume horaire TD	Volume horaire TP		
	35	6			
Objectifs	The Aim of this course is to present the latest results and current issues related to how sensory cortices process information, and how this gives rises to perception. The emphasis will be on vision, although other modalities will also be discussed. The variety of approaches used to tackle these issues will be presented, ranging from the study of cortical circuits with state of the art tools, to the more integrated level of human psychophysics and animal behaviours.				
Thèmes abordés	Neurophysiology and imaging of the visual cortex. Interaction between visual cortex and other cognitive areas. Object and face perception. Visual psychophysics. Link between cortical activity and perception. Neuropsychological correlates of perception. Cross modal interaction between different modalities.				
Compétences acquises à l'issue de l'UE (concepts, méthodologie et outils)	Students will learn how the visual system is organized and processes information. Emphasis will be given on state of the art imaging technique and their use in the study of visual system processing, and the concepts and tools that can be used to bridge the gap between neural activity and perception.				
Prérequis	Basic knowledge in Neurosciences. This course is part of the Neuroscience program of the Master of integrative Biology. This course is taking place during the second year of the program.				
Modalités d'évaluation/100	Ecrit	Oral	CC	Autre	
	70-100	0-30			
The evaluation should be conducted through a unique formal written examination. However, according to the number of participant, oral presentation could be organised.					
Langues utilisées	Dans les cours, TD, TP		Dans les documents, supports		
	English		English		
Localisation	Campus Pierre et Marie Curie				