

Master in Life Sciences, ENS – M1
2026-2027 - Semester 1
UNBIO1-128 - Synaptic transmission (formerly Physiology of the Neuron ») **6 ECTS**

Sep 21st Monday	9-10	Introduction (MC)	10-12	Electrophysiology Techniques (BB)		2-4	Neurotransmission (PP)	4-5	More neurotransmission (PP)
					Sep 25th Friday	2-4	Ion Channel Diversity (MC)	4-5	Personal Work 1: «Launch » (MC+AD)
Sep 28th Monday	9-11	Excitable Membranes (BB)	11-12	TD 1 (MC)		2-4	Personal Work 2: «Work in Progress session » (MC+AD)	4-5	Atypical Neurotransmission (MC)
					Oct 2nd Friday	2-4	Vesicular Trafficking (LD)		
Oct 5th Monday	9-11	Transport and Transporters (MC)				2-4	TD 2 (MC)		
					Oct 9th Friday	2-4	Intracellular signalling at the synapse (AD)		
Oct 12th Monday	9-11	Organization and Development of Synapses (CC)				2-5	Personal Work 3 : «Report on the Work Done » (AD+MC)		
					Oct 16th Friday	2-4	Open Bar in Neurosciences (AD+MC)		
Oct 19th Monday	9-12	Exam							

MC : Mariano Casado, AD : Andrea Dumoulin, BB : Boris Barbour, PP : Pierre Paoletti ; LD : Lydia Danglot ; CC : Cécile Charrier

- 10 theoretical courses: Electrophysiology Techniques, Excitable Membranes, Neurotransmission, More Neurotransmission, Atypical Neurotransmission, Ion Channel Diversity, Transport and Transporters, Vesicular Trafficking, Intracellular signalling at the synapse, Organisation and Development of Synapses
- 2 tutorial sessions (TDs) on electrophysiology
- 3 hands-on sessions on a gene ontology database to search for synaptic proteins function
- 1 wrap-up session