Year concerned : DFGSP-3 (3rd year pharmacy)

	X Specific teaching	☐ Coordinated teaching	☐ Optional
Teaching Unit title	UE Chemistry and pharmacology of active substances		
Subjects Taught	• **Pharmacology**		
Person in Charge	**T Gicquel**		
Participating Teachers	**V Langente – C Martin Chouly – T Gicquel**		
Total Duration	Lectures: 21h	Tutorials: 4,5 h	Practicals: 2 h
Teaching period	1st semester		
Teaching objectives	The objective of this course is to understand the functioning of neurotransmitters in the body at the pharmacological level (biosynthesis, metabolism, receptors, reuptake, signaling) as targets of drugs		
Curriculum content	CM (T Gicquel - V Lagente): - Neurotransmission and drug targets - Cholinergic transmission - Adrenergic and noradrenergic transmission - Glutamatergic transmission - GABAergic transmission - Serotonergic transmission - Dopaminergic transmission TD (C Martin-Chouly - T Gicquel): - Modulation of cellular electrophysiological properties by pharmacological agents (1,5h) - Revision of the teachings with the help of mind maps (1,5h) - Pharmacist-patient scenario on the pharmacological properties of a drug in experimental pharmacy (1,5h) Practical work (C Martin-Chouly - T Gicquel): - Pharmacological modulations of the contraction of the smooth muscle of the guinea pig ileum assisted by computer (2h)		
Objectives	To master the pharmacology of drugs acting on neurotransmissions		
Prerequisites	**Validation of the DFGSP-2**		
Recommended books /E-learning	Documents on Moodle Pharmacology: From targets to therapeutic indication - Landry Y and Gies J-P - 2nd Ed Dunod, 2009		