

Testi del Syllabus

Resp. Did.	FLORIO CHIARA	Matricola: 004090
Docenti	CELEGHINI CLAUDIO, 3 CFU FLORIO CHIARA, 3 CFU STOCCO GABRIELE, 1 CFU	
Anno offerta:	2016/2017	
Insegnamento:	779SM - NEUROANATOMIA E NEUROFARMACOLOGIA	
Corso di studio:	SM54 - NEUROSCIENZE	
Anno regolamento:	2016	
CFU:	7	
Settore:	BIO/16	
Tipo Attività:	B - Caratterizzante	
Anno corso:	1	
Periodo:	Annualità Singola	
Sede:	TRIESTE	



Testi in italiano

Lingua insegnamento	English
Contenuti (Dipl.Sup.)	Part one: principles Pharmacokinetic: mechanisms of membrane crossing - chemical transport - drug absorption, distribution, metabolism and excretion - bioavailability - pharmacokinetic models: one and two compartment, half-life Pharmacodynamic: dose-response curves: gradual and quantal curves - radioligand binding - competitive and non-competitive antagonism - allosteric modulators Pharmacogenomics: elements of human genetic variation - basis on genetic variants affecting protein function and epigenetic effects of pharmacological relevance Part two: drugs of the central nervous system Antidepressant drugs - Antipsychotic drugs - Anticonvulsant agents - Anxiolytic drugs - Analgesics
Testi di riferimento	Siegel GJ Basic Neurochemistry seventh edition Elsevier - AP Nestler EJ, Hyman SE, Malenka RC Molecular Neuropharmacology second edition McGrawHill
Obiettivi formativi	to introduce the principles at the basis of the pharmacokinetic, pharmacodynamic and pharmacogenomic properties of the drugs, especially of those acting at the central nervous system
Prerequisiti	none
Metodi didattici	frontal lectures

Altre informazioni	Computer-aided teaching material will be supplied
Modalità di verifica dell'apprendimento	Verification of learning will be done through ongoing tests and examinations. The ongoing trials will be held during the course and will consist in short written themes relating to the subject matter and is intended to highlight learning difficulties. The final examination will be oral
Programma esteso	Part one: principles Pharmacokinetic: mechanisms of membrane crossing - chemical transport - drug absorption, distribution, metabolism and excretion - bioavailability - pharmacokinetic models: one and two compartment, half-life Pharmacodynamic: dose-response curves: gradual and quantal curves - radioligand binding - competitive and non-competitive antagonism - allosteric modulators Pharmacogenomics: elements of human genetic variation - basis on genetic variants affecting protein function and epigenetic effects of pharmacological relevance (*) Part two: drugs of the central nervous system Antidepressant drugs - Antipsychotic drugs - Anticonvulsant agents - Anxiolytic drugs - Analgesics: for each class of drugs, information on pharmacological properties, therapeutic uses - Animal models for the study of psychiatric diseases - Insights on pharmacogenomics determinants of efficacy and adverse events for drugs of the central nervous system will be provided (*). All topics will be taught by prof. Chiara Florio but pharmacogenomic topics (*) which will be taught by dr. Gabriele Stocco.



Testi in inglese

Lingua insegnamento	English
Contenuti (Dipl.Sup.)	Part one: principles Pharmacokinetic: mechanisms of membrane crossing - chemical transport - drug absorption, distribution, metabolism and excretion - bioavailability - pharmacokinetic models: one and two compartment, half-life Pharmacodynamic: dose-response curves: gradual and quantal curves - radioligand binding - competitive and non-competitive antagonism - allosteric modulators Pharmacogenomics: elements of human genetic variation - basis on genetic variants affecting protein function and epigenetic effects of pharmacological relevance Part two: drugs of the central nervous system Antidepressant drugs - Antipsychotic drugs - Anticonvulsant agents - Anxiolytic drugs - Analgesics
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