COURSE DETAIL

MOLECULAR NEUROBIOLOGY
Country Denmark
Host Institution University of Copenhagen
Program(s) University of Copenhagen
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 139
UCEAP Course Suffix
UCEAP Official Title MOLECULAR NEUROBIOLOGY
UCEAP Transcript Title MOLECULAR NEUROBIOL
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course describes the molecular basis of our nervous system. Basic knowledge of biochemistry and molecular biology is needed to be able to follow this class. The course starts with an introduction of basal neurobiology and then discusses the protein structures and physiological actions of the Na+, K+, Ca2+ and Cl- channels. The biochemical aspects of synaptic transmission are covered: exocytosis/endocytosis, the various neurotransmitters, their biosynthesis and break-down, neurotransmitter transporters and neurotransmitter receptors, and the different second messenger systems. The course also covers neuropharmacology questions such as: How do neuroleptica, anxiolytica, sedativa, mood lifters, Viagra, and the various euphoric drugs act? Furthermore, topics like neuroendocrinology, smell, taste, and vision and, finally, consciousness (who am I?) are discussed.

Language(s) of Instruction
English

Host Institution Course Number
NBIK14034U

Host Institution Course Title
MOLECULAR NEUROBIOLOGY

Host Institution Course Details

Host Institution Campus
Science

Host Institution Faculty

Host Institution Degree

Host Institution Department
Biology

Course Last Reviewed

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