FOUNDATIONS OF PSYCHOBIOLOGY II
26906

Psychobiology Unit
Department of Psychobiology and Methodology of Health Sciences

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AIMS

The main aim of this course is to give basic concepts of neurochemistry and functional neuroanatomy, as well as of development of the nervous system, to facilitate, in subsequent courses, to study the relationships between behaviour and mental processes and their biological bases.

OUTLINE OF THE COURSE

The course is composed of three blocks: Block A (transmitter substances and neural plasticity), Block B (development of the nervous system) and Block C (functional neuroanatomical systems)

BLOCK A. TRANSMITTER SUBSTANCES AND NEURAL PLASTICITY

Lesson 1. Neurotransmitters
Lesson 2. Non synaptic communication
Lesson 3. Mechanisms of synaptic plasticity

BLOCK B. DEVELOPMENT OF THE NERVOUS SYSTEM
Lesson 4. Prenatal development
Lesson 5. Life-long development of the nervous system

BLOCK C. FUNCTIONAL NEUROANATOMICAL SYSTEMS
Lesson 6. Sensory and motor systems
Lesson 7. Cerebral cortex and higher functions
Lesson 8. The Limbic system
Lesson 9. Homeostatic control systems
Lesson 10. Ascending activating systems
BIBLIOGRAPHY

Bear, M.F.; Connors, B.W.; Paradiso, M.A. (2002). *Neuroscience: Exploring the Brain*. Lippincott Williams & Wilkins


IMPORTANT NOTICE: The lessons of this course are mainly given in Catalan. Only some of them (in one of the groups) will be given in Spanish. None of them are given in English.