Neuromodulation and Neuronal Development

07-MS1NMND-141-m01

Module coordinator: holder of the Chair of Neurobiology and Genetics
Module offered by: Faculty of Biology

ECTS: 10
Method of grading: numerical grade
Duration: 1 semester
Module level: graduate
Other prerequisites: --

Contents

Neuromodulation: cellular and molecular biology of neuromodulators and their receptors, modulation of synaptic transmission and membrane potential, theoretical and functional aspects of neuromodulation, model systems used to study modulation of neuronal circuits. Fundamental principles of molecular developmental neurobiology. Focus is on the establishment of the neuroectoderm, pattern generation and regional specification, neuronal precursors, neuronal growth, differentiation of neurons, axonal pathfinding, neuronal connectivity.

Intended learning outcomes

The students learn fundamental principles underlying neuromodulation and neuronal development and obtain an insight into current research in the field.

Courses

V + S (no information on SWS (weekly contact hours) and course language available)

Method of assessment

written examination or oral examination of one candidate each or oral examination in groups of up to 3 candidates

Allocation of places

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Additional information

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Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Biology (2011)
Master's degree (1 major) Biology (2014)