

● STUDY OF ENCEPHALIC RECEPTORS



INTRODUCTION

A research group of the department of Cell Biology, Genetics and Physiology (Cell Biology Area), specialising in the study of the encephalic receptors in neuronal communication neuronal, with particular emphasis placed on dopamine receptors. They also have research lines related to the neurodegenerative processes involved in aging and in Alzheimer's disease.

RESEARCH TOPICS

- Study of neurodegenerative processes during aging and Alzheimer's disease. Characterisation of transgenic animal Alzheimer models and identification of early biomarkers of the pathological progression of the disease. Neuroprotection mechanisms.
- Study of the cell and molecular mechanisms of opiate addiction. Interaction between dopaminergic receptors and opioid receptors in morphine addiction.
- Characterisation of the functional role of D4 dopaminergic receptors in neuronal communication via volume transmission.

SCIENTIFIC-TECHNICAL SERVICES

- Cell and molecular techniques for locating molecules in animal tissues: in situ hybridisation, immunohistochemistry, union to ligands and autoradiography.
- Functional characterisation of opiate drugs.
- Validation of drugs in transgenic animal models of Alzheimer's disease.
- Neuropathological diagnosis in animal models of neurodegenerative diseases.

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