

# Learning and memory in the hippocampus

The nervous system is evolution's response to the problem of acquisition, processing and storage of information. Information is vital for adaptation and survival, and more complex organisms is synonymous of more complex nervous systems. In this introductory talk to the field of theoretical neuroscience I will speak about two mechanisms which are central in neural information processing: learning and memory. I will use the hippocampus, a structure from the limbic system, to address these mechanisms in concrete terms. The hippocampus is a pivotal structure in mammals for spatial memory, navigation and episodic memory and is capable of performing many interesting neural computations.

**Orador:** Paulo Aguiar (Instituto de Biologia Molecular e Celular da Universidade do Porto).

**Data:** 17 de Novembro (Sexta-feira) às 14h00.

**Local:** sala EC0.29 do Campus de Azurém da Universidade do Minho.