

Physiological properties of neurons in the primary visual cortex

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Abstract The primary visual cortex is the first cortical step for the perception of vision. Over the last decades, it has been the most studied area in the sensory cortex. In this course, we will describe the physiological properties of neurons in the visual cortex as observed with electrophysiological or neuroimaging techniques. We will focus on individual properties of neurons as well as on their collective organizations into functional maps and singularities. The roles of direct connections from the retina and those of intracortical connections in building neuronal properties will be addressed. Eventually, we will focus on the development and on the plastic changes of these properties during a normal or a pathological visual experience.