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Sommario/riassunto	Neurodegenerative processes alter neuronal and glial physiology and cause cognitive and mnemonic impairments. Aim of this PhD thesis is to investigate the involvement of the cholinergic system and the role of mTOR pathway in the mechanisms of memory encoding in the hippocampus and to study the pathophysiological processes at the base of the cognitive impairments in different experimental models of neurodegeneration: in particular normal brain aging, neuroinflammation and chronic cerebral hypoperfusion. These mechanisms are studied focusing on the morpho-functional alterations in the neuron-astrocytemicroglia triad.