**Figure ligands**

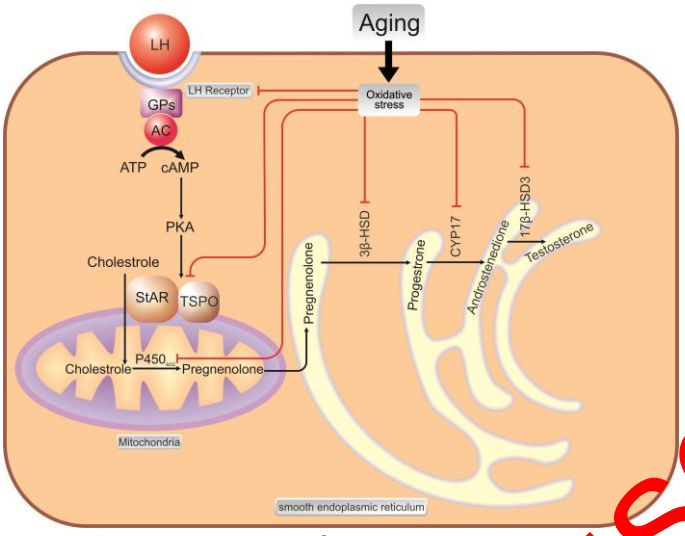


**Fig. 1.** The essential molecular components of testosterone biosynthesis in Leydig cells and the inhibitory effects of aging at multiple levels on these machineries. LH: luteinizing hormone; StAR: steroidogenic acute regulatory protein; TSPO: translocator protein; PKA: protein kinase A; CYP17: 17α-hydroxylase/C17-20 lyase.

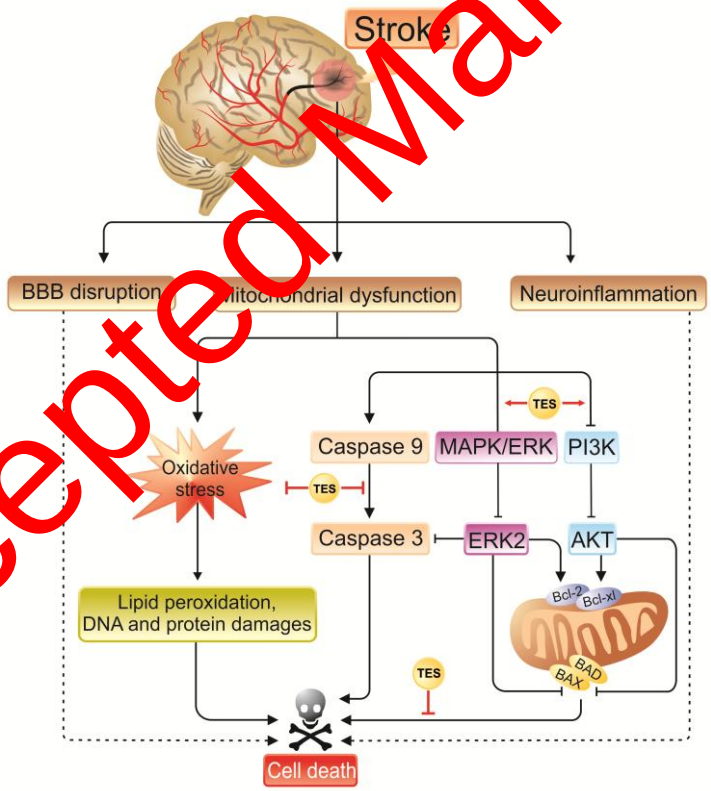


**Fig. 2.** Ischemic stroke triggers cascades of complex events resulting in the neuronal loss in affected area. Testosterone induces neuroprotection in the neuronal cell following cerebral ischemia through inhibition of oxidative stress and blocking apoptotic cell death. ROS: reactive oxygen species; TES: testosterone; MAPK: mitogen-activated protein kinase; ERK: extracellular signal-regulated protein kinase.