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Front cover image: Schematic illustration of the main mitochondrial changes frequently occurring in cancer cels. The reprogramming of mitochondrial netabolism in many cancer cover of mitochondrial metabolism in many cancer cover of the mitochondrial metabolism in many cancer cover of the mitochondrial matrix is facilitated by UPCP up repulsation. This increases also the free fatty acids uptake by mitochondria, therefore β-oxidatio pushed to produce acetyl-coerayme A, whose oxidation contributes to ATP production. In cancer cells many signals converge on the mitochondria metabolism contributes to ATP production. In cancer cells many signals converge on the mitochondria metabolism produces and the mitochondrial membrane permeability, which may respond by elevating the MTP (PTP) threshold, with consequent enhancement of apoptosis resistance. ROS belong to this class of molecules sind it can enhance REIZ and may induce DNA mutations. Dotte lines indicate regulation; solid lines indicate reaction(s).

it can enhance Bd2 and may induce DNA mutations. Dotted lines indicate reaction(s).

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