

Redox changes in normal and neoplastic cells during the cell cycle. I. Bioreduction of nitroxides by CHO cells with different mitotic activity

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Chinese Hamster Ovary (CHO) cells cultured *in vivo* and isolated in logarithmic phase of growth reduced spin probes at a lower rates than cells isolated during plateau phase of growth. This phenomenon was observed for nitroxides located in cell membranes and those penetrating into the cells. Blocking of electron transport in mitochondria with inhibitors slowed down the bioreduction, whereas uncoupling of mitochondrial phosphorylation increased the rate of this process.