

Heat Shock Proteins and Cytoprotection: ATP-Deprived Mammalian Cells (Molecular Biology Intelligence Unit)



This book considers a recently discovered function of heat shock proteins (HSP): adaptation of mammalian cells to energy deficiency. It discusses the following main problems: 1) how do cells sense transient ATP decrease and why does it evoke heat shock response?; 2) how can HSPs protect cells from damage and death and what are their intracellular targets?; 3) what may be a clinical application of HSP-mediated adaptation to ischemia?

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