Six steps of information transfer in eukaryotes that constitute potential regulatory points of gene expression



Scheme of events for protein translation from a mRNA molecule



Replication bubble







Ion channel actions via G-protein coupled receptors





Na⁺ / K⁺ pump





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Cell surface receptors – G-protein linked receptors



Caspase activation by the extrinsic and intrinsic pathways



Cleavage of proteins leading to cell death

Phosphatidylinositol 3-kinase (PI3K)/Akt signaling pathway



Schematic depicting the different phase of the cell cycle





Different forms of cell death



Gene regulation by members of the nuclear receptor superfamily

A. Glucocorticoid receptor



Gene regulation by members of the nuclear receptor superfamily

B. Estrogen receptor



Gene regulation by members of the nuclear receptor superfamily



General schemes of intercellular signaling



Events leading to chromosome replication



Major events of DNA repair process in eukaryotic cells



DNA segments that can modulate transcription by binding gene regulatory proteins



Scheme of the activity of a master gene



