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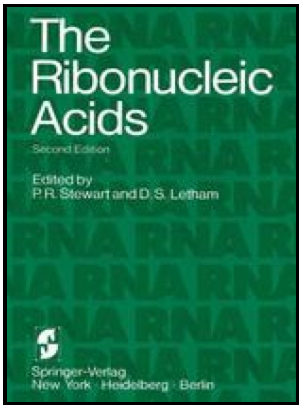
Academic Press - Dealing with an Unconventional Genetic Code in Mitochondria: The Biogenesis and Pathogenic Defects of the 5



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Molecular mechanisms of organelle biogenesis and related metabolic diseases

The number of mitochondria and the amount of mtDNA rapidly increase in the fetus, starting from the blastocyst stage and continuing to grow over the entire period of organism development and maturation.

Nuclear Genes in Mitochondrial Function and Biogenesis

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Today, the existence of mitochondria relies in large measure on the expression of gene products encoded in nuclear DNA.

Molecular mechanisms of organelle biogenesis and related metabolic diseases

She has used a combination of genetics, molecular biology, and biochemistry to study the regulation of mitochondrial gene expression. Akt phosphorylates and inactivates GSK3β, thereby promoting Nrf2 translocation to the nucleus.

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Although it is well established that physical activity increases mitochondrial content in muscle, the molecular mechanisms underlying this process have only recently been elucidated. It activates myocyte enhancer factor 2 MEF2 , which has the site of binding with the promoter of PGC-1α.

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These data further suggest that alterations in nuclear-encoded genes regulating mitochondrial biogenesis may form a genetic basis for inheritance of at least some forms of Type 2 diabetes. PGC-1α is phosphorylated by glycogen synthase kinase 3β GSK3β , which inhibits PGC-1α and contributes to its intranuclear proteasomal degradation. Activated SIRT1 deacetylates PGC-1α, thereby promoting mitochondrial biogenesis.

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