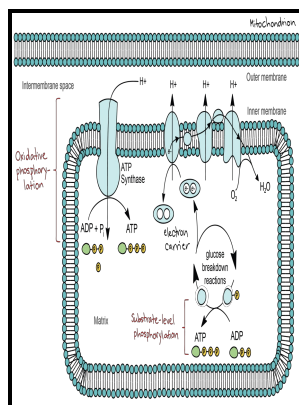


Intracellular respiration - phosphorylating and non-phosphorylating oxidation reactions

Symposium Publications Division, Pergamon Press - Oxidative phosphorylation in Moniezia muscle mitochondria



Description: -

- Oxidation, Physiological.

Cell metabolism

Phosphorus -- Metabolism. Intracellular respiration - phosphorylating and non-phosphorylating oxidation reactions

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Uncouplers of oxidative phosphorylation

The influence of hypoxic exposure of endothelial cells, especially chronic exposure to hypoxia, on mitochondrial oxidative function has not been intensively studied. Kluwer Academic Publishers, Dordrecht, pp. Cambridge, UK oxygen electrode or a Hansatech oxygen electrode in either 0.

Control of respiration in non

NADH generated at glyceraldehyde phosphate dehydrogenase enters the mitochondria on the malate-aspartate shuttle, driven by re-entry of 2 of the 20 subsequently translocated H^+ + column 1, or on the glycerol 3-phosphate shuttle which allows the reducing equivalents to enter the electron transport chain without passing through complex I, so pumping 12 H^+ , 8 fewer than normal for matrix NADH; column 1.

Nonphosphorylating Oxidation in Mitochondria and Related Processes

We describe here how rates of ATP generation by each pathway can be calculated from simultaneous measurements of extracellular acidification and oxygen consumption.

Quantifying intracellular rates of glycolytic and oxidative ATP production and consumption using extracellular flux measurements

Partial Resolution of the Enzymes Catalyzing Oxidative Phosphorylation. Substrate catabolism by glycolysis and oxidation and related extracellular measurements.

Propavane an inhibitor of oxidative phosphorylation connected with mitochondrial glutamate metabolism

Moreover, the maximal COX activity was unaffected Fig. The elevated activity of complex II resulted in an increase in succinate-sustained mitochondrial ROS formation, mainly through increased reverse electron transport. Cellular and mitochondrial superoxide formation in endothelial

cells grown in normoxia N or chronic hypoxia H.

Quantifying intracellular rates of glycolytic and oxidative ATP production and consumption using extracellular flux measurements

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Quantifying intracellular rates of glycolytic and oxidative ATP production and consumption using extracellular flux measurements

Biochemistry Moscow 85, 1570—1577 2020. Abstract The mechanism of oxidative phosphorylation and its regulation remain one of the main problems of bioenergetics.

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