

Mitochondria The Dynamic Organelle Advances In Biochemistry In Health And Disease

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Mitochondria The Dynamic Organelle Advances

In healthy cells, mitochondria continually divide and fuse to form a dynamic interconnecting network. The molecular machinery that mediates this organelle fission and ... This review will cover the ...

Mitochondrial dynamics and apoptosis

We discuss the mechanisms regulating mitochondrial segregation during cell division, oogenesis, fertilization and tissue development. The mechanisms that ensure the integrity of these organelles and ...

Mitochondrial dynamics and inheritance during cell division, development and disease

Finally, we explore points of controversy within the area of cardiac mitochondrial dynamism, focusing on unexpected molecular functions of mitochondrial dynamics and mitophagy ... each daughter cell ...

How Mitochondrial Dynamism Orchestrates Mitophagy

Not only is mitochondrial ... involved in mitochondrial dynamics has raised the intriguing possibility that cell death proteins perform a double-duty as regulators of mitochondria quality control.

The Mitochondrial Dynamism-Mitophagy-Cell Death Interactome

This relationship is not affected by typical mediators of mitochondrial dynamics by Dynamin Related Protein 1 (DRP1), but rather is strongly dependent on actin dynamics. With the generation of smaller ...

Protective mitochondrial fission induced by stress-responsive protein GJA1-20k

In a new study now published on Science Advances ... mitochondrial variant, Nature Genetics (2014). DOI: 10.1038/ng.2920 Karin B. Busch et al, Quality matters: how does mitochondrial network ...

Cristae-dependent quality control of the mitochondrial genome

The bean-shaped mitochondria make energy ... who led the Janelia Project Team, called COSEM (for Cell Organelle Segmentation in Electron Microscopy). The data for just one cell is made up of tens of ...

Machine Learning Helps Reveal Cells' Inner Structures in New Detail

These reaction groupings are known as glycolysis, the Krebs cycle, and electron transport. In eukaryotes, the mitochondria is the primary organelle that contains the enzymes that drive cellular ...

Respiration, Cellular

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Shifts from cis-to trans-splicing of five mitochondrial introns in Tolypanthus maclurei

Organelle genomics has become its own field of study. Much information can be gleaned from the study of cell organelles. The differences in the genomes of organelles, such as the mitochondrion and the ...

Prediction of Monophyletic Groups Based on Gene Order and Sequence Similarity in Organelle DNA ()

The bean-shaped mitochondria make energy ... called COSEM (for Cell Organelle Segmentation in Electron Microscopy). The data for just one cell is made up of tens of thousands of images; tracing ...

Machine learning helps reveal cells' inner structures in new detail

and mitochondrial ferritin concentration and mitochondrial monoamine oxidase activity regulation. Despite these advances, current data demonstrate contradictory findings with regard to not only the ...

Regulatory Effects of Cannabidiol on Mitochondrial Functions: A Review

We then use current advances to elucidate the logic and molecular architecture ... Just as centrioles, could the biogenesis and/or dynamics of other organelles be regulated by autonomous clocks? In ...

Autonomous clocks that regulate organelle biogenesis, cytoskeletal organization, and intracellular dynamics

A common treatment for Alzheimer's disease may help people with the earliest stages of the disease maintain mitochondrial function in their muscles in addition to slowing cognitive decline.

News tagged with mitochondrial diseases

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