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Hydrogenosomes and Mitosomes: Mitochondria of Anaerobic Eukaryotes. "Hydrogenosomes and Mitosomes: Mitochondria of Anaerobic Eukaryotes" provides a summary of the current knowledge of these organelles, which occur in unicellular, often parasitic organisms, including human pathogens. The distribution of these organelles is broad.

[Hydrogenosomes and Mitosomes: Mitochondria of Anaerobic ...](#)

Hydrogenosomes and mitosomes are mitochondria in the evolutionary sense in that they descend from one and the same eubacterial endosymbiont, but the evolutionary significance of eukaryotic anaerobes that possess hydrogenosomes, mitosomes, and anaerobically functioning mitochondria is an issue of some contention. This chapter serves to further develop the thesis that the role of oxygen in

[Hydrogenosomes and mitosomes : mitochondria of anaerobic ...](#)

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[Hydrogenosomes, Mitochondria and Early Eukaryotic ...](#)

William Martin, Anaerobic Eukaryotes in Pursuit of Phylogenetic Normality: the Evolution of Hydrogenosomes and Mitosomes, Hydrogenosomes and Mitosomes: Mitochondria of Anaerobic Eukaryotes, 10.1007/7171_2007_108, (1-20), (2008).

[Hydrogenosomes and Mitosomes: Mitochondria of Anaerobic ...](#)

Hydrogenosomes and mitosomes are now within the fold of the well-known and respected organelle family that includes the powerhouses of the aerobic eukaryotic world.

[Hydrogenosomes and Mitosomes: Conservation and Evolution ...](#)

ABSTRACT. The field studying unusual mitochondria in microbial eukaryotes has come full circle. Some 10-15 years ago it had the evangelical task of informing the wider scientific community that not all eukaryotes had

mitochondria.

9783540767329 - Hydrogenosomes and Mitosomes: Mitochondria ...

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Hydrogenosome - Wikipedia

A hydrogenosome is a membrane-enclosed organelle of some anaerobic ciliates, trichomonads, fungi, and animals. The hydrogenosomes of trichomonads (the most studied of the hydrogenosome-containing microorganisms) produce molecular hydrogen , acetate , carbon dioxide and ATP by the combined actions of pyruvate:ferredoxin oxidoreductase , hydrogenase , acetate:succinate CoA transferase and succinate thiokinase .

Mitosome - an overview | ScienceDirect Topics

In eukaryote lines that were permanently exposed to anaerobic conditions, the genes for anaerobic respiration were maintained while those for aerobic respiration were either lost or substantially reduced (explaining the existence of anaerobic mitochondria, hydrogen-producing mitochondria, hydrogenosomes, and mitosomes see above).

(PDF) Anaerobic Eukaryotes - ResearchGate

This chapter reviews adaptations to anaerobic life among eukaryotes. While many animals can endure anoxia for extended periods of time, there is no solid evidence that any animal species can

Hydrogenosomes and Mitosomes: Conservation and Evolution ...

Hydrogenosomes and Mitosomes: Conservation and Evolution of Functions | MARK VAN DER GIEZEN
Centre for Eukaryotic Evolutionary Microbiology, School of Biosciences, University of Exeter, Exeter, UK

ABSTRACT. The eld studying unusual mitochondria in microbial eukaryotes has come full circle. Some 10–15 years ago it had the evangelical task of informing the wider scientific

Hydrogenosomes and Mitosomes: Mitochondria of Anaerobic ...

Table of contents. 1. Anaerobic Eukaryotes in Pursuit of Phylogenetic Normality: the Evolution of Hydrogenosomes and Mitosomes William Martin. 2. Energy metabolism among eukaryotic anaerobes in light of ...

Recent years have witnessed major upheavals in views about early eukaryotic evolution. One very significant finding was that mitochondria, including hydrogenosomes

and the newly discovered mitosomes, are just as ubiquitous and defining among eukaryotes as the nucleus itself.

[The hydrogenosomes of *Psalteriomonas lanterna* | BMC ...](#)

Anaerobic mitochondria, mitochondria-like organelles and hydrogenosomes produce ATP, albeit with either different electron transport chains than in aerobic mitochondria, or without an electron transport chain altogether.

[Mitochondria and hydrogenosomes are two forms of the same ...](#)

Published data suggest that hydrogenosomes, organelles found in diverse anaerobic eukaryotes that make energy and hydrogen, were once mitochondria.

[Hydrogenosomes and Mitosomes: Conservation and Evolution ...](#)

Mitochondria, both aerobic and anaerobic, are highly relevant to the general topic of hydrogenosomes and mitosomes, but they will not be considered here. The reader is referred to other texts (Scheffler 2008; Tielens et al. 2002; van Hellemond et al. 2003).

[Hydrogenosomes and Mitosomes: Mitochondria of Anaerobic ...](#)

"Hydrogenosomes and Mitosomes: Mitochondria of Anaerobic Eukaryotes" provides a summary of the current knowledge of these organelles, which occur in unicellular, often parasitic organisms, including human pathogens.

[Metabolism of Trichomonad Hydrogenosomes | Request PDF](#)

Hydrogenosomes and mitosomes are found in a broad spectrum of rather unrelated species of unicellular, anaerobic eukaryotes, suggesting that hydrogenosomes and mitosomes evolved repeatedly and

[\(PDF\) Protein Import into Hydrogenosomes and Mitosomes](#)

In the past decade, studies on protein targeting to hydrogenosomes and mitosomes have revealed several characteristics in common with mitochondrial protein targeting.