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Institute for Advanced Research, Program
in Evolutionary Biology, Department of
Biochemistry and

Mitochondrial Evolution: Should I stay or should I go?

Through the data collected we propose a
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wherein one or more mitochondria
escaped from their eukaryotic hosts and
developed into the Eukobacteria. Do you
want...

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Mitochondrial Evolution Should I Stay Or
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Human Mitochondrial DNA and the Evolution of Homo sapiens-Hans-Jürgen Bandelt 2006-09-05 Mitochondrial DNA is one of the most closely explored genetic systems, because it can tell us so much about the human past.

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Because multicellular organisms are made of eukaryotic cells, many think the evolution of mitochondria was the stepping-stone that fueled multicellular evolution. However, there are a lot of problems with the story of mitochondrial evolution. Therefore, exactly when mitochondria evolved, the fate of the proto-mitochondria's missing genes, and the identity of their ancestral bacteria have remained controversial.

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Winding Back Life's Story: Evolution of Mitochondria ...

Mitochondria originate from a bacterium, meaning they have their own DNA molecule in which the structure of several proteins is recorded. An OXA-like machinery already existed in the bacterial...

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Evolution of these derived mitochondrial

genomes has been marked by (i) extensive gene loss (both protein-coding and tRNA genes); (ii) marked divergence in ribosomal DNA and rRNA structure [manifested as severe truncation of rRNA sequence and secondary structure and even fragmentation of rRNA genes and dispersion of the resulting subgenic coding modules]; (iii) an accelerated rate of sequence divergence (in both protein-coding and rRNA genes); (iv) adoption of a highly biased codon usage ...

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Evolutionary Origin of Mitochondria. Unlike any other organelle, except for chloroplasts, mitochondria appear to originate only from other mitochondria. They contain their own DNA, which is circular as is true with bacteria, along with their own transcriptional and translational machinery. Mitochondrial ribosomes and transfer RNA molecules are similar to

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Yet mitochondrial genome evolution has taken radically different pathways in diverse eukaryotic lineages, and the organelle itself is increasingly viewed as a genetic and functional mosaic, with the bulk of the mitochondrial proteome having

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an evolutionary origin outside Alphaproteobacteria. New data continue to reshape our views regarding mitochondrial evolution, particularly raising the question of whether the mitochondrion originated after the eukaryotic cell arose, as assumed in the ...

Mitochondrial Evolution - CSHL P

Ongoing projects examine how the evolution of mitochondria and plastids influences key biological processes, including speciation, the origins of sex, and environmental adaptation. High-throughput sequencing, bioinformatics, and wet lab methods are typically used in our work to address broad evolutionary topics.

Welcome - Justin Havird

Here, we characterized a collection of 81 *P. uniformis* isolates from North America

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and Europe and from both scarab beetles and *L. decemlineata*. We used population genetic and phylogenetic analyses of the mitochondrial gene *nd2* to reconstruct the genetic history of *P. uniformis* and its beetle association.

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