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Professor of Physiology and Cell Biology

44 H-Index

7608 Citations

\$1,960,963 Total Grant Funding

Research Interests

Mitochondrial Disorders
Mitochondrial Dysfunction

Mitochondrial DNA Mutations
Mitochondrial Disease Modeling

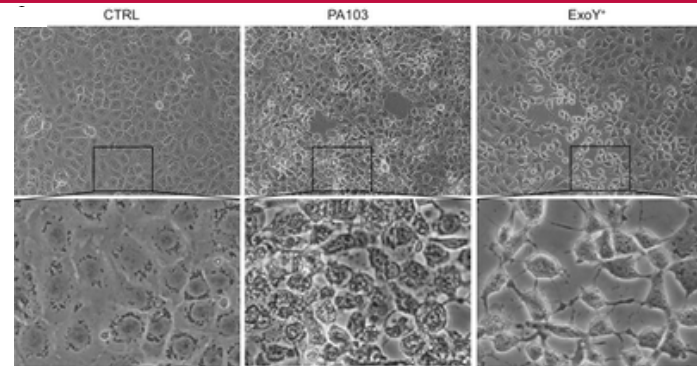
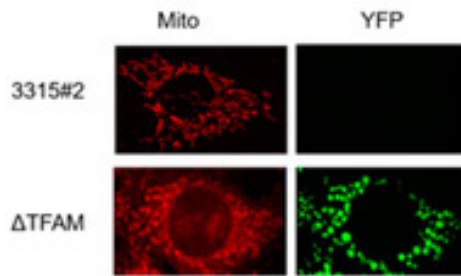
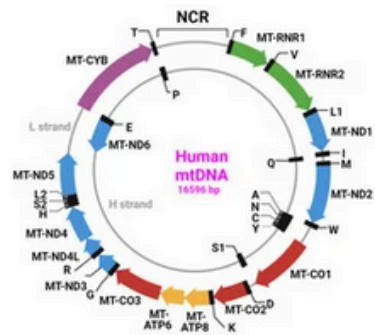
Interspecies Barrier
for mtDNA Replication

Experimental Capabilities

Recombinant DNA

Genetically Modified Cells and Animals

Recombinant Adeno-, Retro-
and Lentiviruses, AAV



Variability in mitochondrial genome organization among a human type 1 mitochondrial genome.

Mitochondrial transcription factor A (mTFAM) inactivation is accompanied by mitochondrial expression of enhanced yellow fluorescent protein (EYFP).

Infection of *P. Aeruginosa*'s exoenzyme Y (far right) leading to cell rounding, compared to its exoenzyme U and T (PA103) or the control (CTRL).

2023 International Journal of Molecular Sciences

"The C-terminal tail of Mitochondrial Transcription Factor A is Dispensable for Mitochondrial DNA Replication and Transcription in Situ"

2023 Biology

"35 Years of TFAM Research: Old Protein, New Puzzles"

2014 "Treatment of Disease Conditions Via Administration of DNA Repair Enzyme" US Patent

2022 DNA "Mitochondrial DNA: Consensuses and Controversies"

2024 DNA "Efficient Elimination of mtDNA from Mammalian Cells with 2', 3'-Dideoxycytidine"



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