The Mitochondrion in Aging and Disease, Vol 127. Progress in Molecular Biology and Translational Science

Description: Mitochondria, the "power plants" of eukaryotic cells, are best known for the generation of adenosine triphosphate (ATP), the universal cellular "energy currency" of the cell, and the synthesis of different essential components. Mitochondrial dysfunction is known to lead to various degenerative disorders, disease, and aging. The Mitochondrion in Aging and Disease works to unravel the processes leading to mitochondrial impairments and of pathways involved in mitochondrial quality control and their impact on health and aging will be addressed.

- Reviews current topics of interest
- Written by experts in the field

Contents:

- The Mitochondrial Free Radical Theory of Aging
  Gustavo Barja
- Mitochondrial DNA Mutations in Aging
  Konstantin Khrapko and Doug Turnbull
- Mathematical Models of Mitochondrial Aging and Dynamics
  Axel Kowald and Edda Klipp
- Mitochondrial Dynamics in Aging and Disease
  Jürgen Bereiter-Hahn
- The Retrograde Response
  S. Michal Jazwinski
- Mitochondrial Acetylation and Genetic Models of Parkinson's Disease
  Georg Auburger, Suzana Gispert and Marina Jendrach
- Mitochondrial Dysfunction: Cause and Consequence of Alzheimer's Disease
  Kristina Friedland-Leuner, Carola Stockburger, Isabel Denzer, Gunter P. Eckert and Walter E. Müller
- Mitochondria in Cancer: Why Mitochondria are a Good Target for Cancer Therapy
  Lan-Feng Dong and Jiri Neuzil
- Estrogen and Mitochondria Function in Cardiorenal Metabolic Syndrome
  Guanghong Jia, Annayya R. Aroor and James R. Sowers
- Advances in Development of Rechargeable Mitochondrial Antioxidants
  Alexander N. Lukashev, Maxim V. Skulachev, Victoria Ostapenko, Alla Yu. Savchenko, V. Pavshintsev and Vladimir P. Skulachev

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