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Mitochondrial Signaling in Health and Disease (Oxidative Stress and Disease)

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Mitochondria have traditionally been associated with metabolic functions; however recent research has uncovered a central role for these organelles in cell signaling, cell survival, and cell death. Mitochondrial dysfunction is a factor in a myriad of pathophysiological conditions, including age-related neurodegenerative disorders, cancer, metabolic syndrome, and cardiovascular disease. **Mitochondrial Signaling in Health and Disease** examines themes essential for the maintenance of the mitochondrial redox (reduction-oxidation) energy axis.

With contributions from an impressive cadre of internationally recognized scientists, the book discusses coordinated mitochondrial functions that regulate cell function by discrete signaling pathways. Topics discussed include:

- Electron transport and energy production
- Mitochondrial biogenesis and dynamics
- Mitochondrial signaling
- Apoptosis and autophagy
- Pharmacology signaling
- Epigenetic signaling: mitochondrial methylation and acetylation reactions

An essential resource for life and health scientists as well as pharmaceutical industry professionals, this volume highlights the importance of mitochondrial signaling and its role in establishing a harmonized communication between several cellular compartments. The information in this volume is critical to those developing mitochondrion-targeted therapies aimed at assuaging mitochondrial dysfunction or the specific factors contributing to its dysfunction.

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