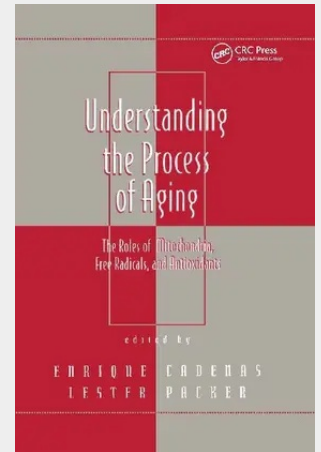


Understanding the Process of Aging

The Roles of Mitochondria: Free Radicals, and Antioxidants

This innovative reference explores a wide selection of topics associated with aging, providing a solid understanding of the significance and molecular basis of the aging process and charting the course of future research in the area. Stresses the interplay of mitochondria, mitochondrial DNA, oxidants, and antioxidants! Featuring the research of over 55 experts in the area, *Understanding the Process of Aging* - covers the functions of nitric oxide and peroxynitrite in mitochondria - integrates several views on the role of mitochondria in the development of apoptosis - gives a quantitative analysis of mutations of mitochondrial DNA during human aging - highlights mitochondrial free radical production - introduces new roles of ubiquinone in mitochondrial functions - offers new antioxidant-based complementary therapeutic strategies - details aspects of intact cells and whole organisms in health and disease - and more! Featuring over 1800 references, tables, drawings, and photographs, *Understanding the Process of Aging* benefits nutritionists and dieticians, geriatricians, cell and molecular biologists, chemists and biochemists, pharmacologists, biotechnologists, neurologists, cardiologists, oncologists, dermatologists, and graduate and medical school students in these disciplines.

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