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This is the premier, single-source reference on redox biochemistry, a rapidly emerging field. This reference presents the basic principles and includes detailed chapters focusing on various aspects of five primary areas of redox biochemistry: antioxidant molecules and redox cofactors; antioxidant enzymes; redox regulation of physiological processes; pathological processes related to redox; and specialized methods. This is a go-to resource for professionals in pharmaceuticals, medicine, immunology, nutrition, and environmental fields and an excellent text for upper-level students.

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Editorial Review

From the Back Cover

The premier, single-source reference on redox biochemistry

Recent advances in systems biology have led to the realization that redox reactions play an important role in many diseases. Consequently, redox biochemistry is a rapidly emerging field. After an introduction that presents the basic principles, this comprehensive resource includes chapters focusing on various aspects of five primary areas of redox biochemistry:

- Antioxidant molecules and redox cofactors
- Antioxidant enzymes
- Redox regulation of physiological processes
- Pathological processes related to redox
- Specialized methods

With articles contributed by internationally known experts in their areas of expertise, *Redox Biochemistry* spans a wide range of topics, including redox enzymology, mycobacterial drug targets, immunology, neurophysiology and oxygen sensing, electrophysiology of macrophage activation, circadian rhythms, and many more. The text discusses the role of redox biochemistry in medicine, including relevance to carcinogenesis, cardiovascular diseases, cataracts/lens biochemistry, immunology, nutrition, and microbial pathogenesis.

With color throughout, numerous formulas, figures, and tables, and references to related resources, this is an excellent text for upper-level undergraduate and graduate students in biochemistry, molecular and cell biology, medicine, environmental, and nutrition studies. It's also a go-to resource for practicing professionals in pharmaceuticals, medicine, immunology, nutrition, and environmental fields.

About the Author

Ruma Banerjee, PhD, is the Vincent Massey Collegiate Professor of Biological Chemistry at the University of Michigan, Ann Arbor. She was the founding director of the Nebraska Redox Biology Center. Dr. Banerjee has published over one hundred articles and several book chapters, and edited *The Chemistry and Biochemistry of Vitamin B-12* (Wiley).

Drs. Becker, Dickman, Gladyshev, and Ragsdale are the Associate Editors and were all members of the Redox Biology Center at the University of Nebraska when this book project began. Drs. Dickman and Ragsdale are currently at Texas A&M and the University of Michigan respectively.

Users Review

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