



Redox Proteomics: From Protein Modifications to Cellular Dysfunction and Diseases

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Methodology and applications of redox proteomics

The relatively new and rapidly changing field of redox proteomics has the potential to revolutionize how we diagnose disease, assess risks, determine prognoses, and target therapeutic strategies for people with inflammatory and aging-associated diseases. This collection brings together, in one comprehensive volume, a broad array of information and insights into normal and altered physiology, molecular mechanisms of disease states, and new applications of the rapidly evolving techniques of proteomics.

Written by some of the finest investigators in this area, *Redox Proteomics: From Protein Modifications to Cellular Dysfunction and Diseases* examines the key topics of redox proteomics and redox control of cellular function, including:

- * The role of oxidized proteins in various disorders
- * Pioneering studies on the development of redox proteomics
- * Analytical methodologies for identification and structural characterization of proteins affected by oxidative/nitrosative modifications
- * The response and regulation of protein oxidation in different cell types
- * The pathological implications of protein oxidation for conditions, including asthma, cardiovascular disease, diabetes, preeclampsia, and Alzheimer's disease

Distinguished by its in-depth discussions, balanced methodological approach, and emphasis on medical applications and diagnosis development, *Redox Proteomics* is a rich resource for all professionals with an interest in proteomics, cellular physiology and its alterations in disease states, and related fields.

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- Rank: #4865958 in Books
- Brand: Dominic M Desiderio
- Published on: 2006-06-12
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x 1.90" w x 6.40" l, 3.16 pounds
- Binding: Hardcover
- 976 pages

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Editorial Review

Review

"...a major book...readers interested in mass spectrometry methods in proteomics will find much that is of interest here." (*Journal of the American Society for Mass Spectrometry*, March 2007)

"Every laboratory that uses redox proteomics in both clinical and academic research should possess a copy of this excellent book." (*Doody's Health Services*)

"...highly recommended as a reference text...Redox Proteomics is thought to be a milestone in this field..." (*Biotechnology Journal*, March 2007)

From the Back Cover

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