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Autore	Andreescu Silvana
Titolo	Biomarkers of Oxidative Stress : Basics and Measurement of Oxidative Stress / / edited by Silvana Andreescu, Ralf Henkel, Abderrezak Khelfi
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031607387 3031607384
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (622 pages)
Altri autori (Persone)	HenkelRalf KhelfiAbderrezak
Disciplina	610.72
Soggetti	Biochemical markers Biochemistry Analytical chemistry Molecular biology Biomarkers Bioanalytical Chemistry Molecular Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 - Chapter 1: Introduction: Physicochemical properties and physiological roles of ROS/oxidative eustress and distress -- Section 1 - Classifications of oxidative stress biomarkers -- Chapter 2 - Reactive species -- Chapter 3 - Biomarkers of oxidative damage -- Chapter 4 - Pro-oxidants -- Chapter 5 – Antioxidants -- Chapter 6 - Other biomarkers -- Section 2: Conventional and advanced measurement techniques of oxidative stress -- Chapter 7 – Introduction -- Chapter 8 - Spectrophotometric methods -- Chapter 9 - Chemiluminescence methods -- Chapter 10 - Fluorimetric methods -- Chapter 11 - Fluorescence-based imaging techniques -- Chapter 12 - Electron paramagnetic resonance/Electron spin resonance -- Chapter 13 - Chapter 13: Electrochemical Methods and Sensors -- Chapter 14 - Enzymatic methods -- Chapter 15 - Chromatographic methods -- Chapter 16 - Immunoassays/ELISA -- Chapter 17 – Immunohistochemistry -- Chapter 18 – MiOXSYS -- Chapter 19 -

TUNEL Assay and SCSA -- Chapter 20 – Proteomics -- Chapter 21 - Other techniques for oxidative stress assessment -- Chapter 22 - Oxidative stress monitoring: needs and opportunities -- Chapter 23 - Future directions, pitfalls and solutions in oxidative stress assessment.

Sommario/riassunto

This book pinpoints one of the fastest growing, complex subjects in chemistry and medical science: the dangers of oxidative stress to human beings. It provides a solid background on the chemistry behind the generation of reactive species as well as how reactive species are involved in essential physiological processes and in almost every human disease. It also covers the most recent developments in the study of oxidative and reductive stress (redox stress), including the role of radical and reactive species, novel antioxidant therapies, and methods for assessing free radicals and redox stress. The chapters present concise, yet thorough, summaries of the state-of-the-art methods and techniques that any investigator working in the oxidative/reductive stress field needs to access. The current methodologies including the development of sensors and biosensors for the detection of ROS/RNS/RHS and of biomarkers of redox stress are thoroughly discussed. This book is a useful resource for all researchers and students interested in oxidative stress, molecular biology, and chemistry. Physicians and healthcare professionals interested in understanding the molecular mechanisms underlying the redox stress-related diseases also stand to benefit from this book.

2. Record Nr. UNICAMPANIAVAN00036527

Autore	Lang, Serge
Titolo	Differential and Riemannian Manifolds / Serge Lang
Pubbl/distr/stampa	New York, : Springer, 1995 ((stampa 1996)
Titolo uniforme	Differential manifolds
ISBN	03-87943-38-2 978-03-87943-38-1
Edizione	[3. ed.]
Descrizione fisica	xiii, 364 p. : ill. ; 24 cm
Soggetti	53-XX - Differential geometry [MSC 2020] 53C20 - Global Riemannian geometry, including pinching [MSC 2020] 57-XX - Manifolds and cell complexes [MSC 2020] 58-XX - Global analysis, analysis on manifolds [MSC 2020] 58A40 - Differential spaces [MSC 2020] 58B20 - Riemannian, Finsler and other geometric structures on infinite-dimensional manifolds [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia