

Redox–Genome Interactions in Health and Disease

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Redox Genome Interactions In Health And Disease

Iris F. F. Benzie, Sissi Wachtel-Galor



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Redox-Genome Interactions in Health and Disease Jürgen Fuchs, Maurizio Podda, Lester Packer, 2003-09-12 At the nexus of advances in molecular genetics and findings in redox biology this volume elaborates on the dynamics governing cellular redox states and aggregates the body of evidence linking oxidative stress and redox modulation with a host of monogenetic and polygenetic diseases

Hormesis in Health and Disease Suresh I. S. Rattan, Éric Le Bourg, 2014-05-16 Some mild stresses have positive effects on survival and aging as shown in animal models There is also a large body of research that demonstrates these hormetic effects on aging health and resistance to severe stresses and diseases in human beings However the data are dispersed in the literature and are not always interpreted as hormetic effect

Hydrogen Peroxide Metabolism in Health and Disease Margreet C M Vissers, Mark Hampton, Anthony J. Kettle, 2017-10-19 Much of the biology of oxidative stress and oxidative signalling centres on the generation and handling of hydrogen peroxide The overall aim for this book would be to provide an insightful and useful forum to assist with the understanding of the relevance of hydrogen peroxide generation and how this is managed in human biology The target audience would be those who currently have an interest in the generation of ROS but who do not have expertise in chemistry as well as those experts in the chemistry of oxidative stress but without detailed understanding of the biologically relevant setting We would aim to bridge the gap in understanding between chemistry and biology

Mitochondrial Signaling in Health and Disease Sten Orrenius, Lester Packer, Enrique Cadenas, 2012-06-20 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

Lipid Oxidation in Health and Disease Corinne M. Spickett, Henry Jay Forman, 2015-03-03 Oxidative modification of lipids and phospholipids including radical damage halogenation and nitration result in significant changes to the chemical properties of the molecules which in turn have a major effect on their biochemical functions Lipid oxidation has long been regarded as a deleterious process responsible for lipid rancidity loss of

Resveratrol in Health and Disease Bharat B. Aggarwal, Shishir Shishodia, 2005-11-01 Practicing evidenced based medicine some 25 centuries ago Hippocrates proclaimed Let food be thy medicine and medicine be thy food This advice parallels the common American saying You are what you eat and is supported by a National Institute of Health recommendation to consume as many as eight servings of fruits and vegetables daily to prevent

Phytochemicals in Health and Disease Yongping Bao, Roger Fenwick, 2004-05-24 well written and the content is clearly presented There are plentiful figures and tables which are effectively labeled and adequately support the content highly recommended for academic and special libraries effectively presents current research on phytochemicals in a readable manner

E Streams This landmark volume shows how far the field has advanced This important volume is filled with reports on what the editors term as the new era in the study of

phytochemicals in which we move from the eat more vegetable and fruit admonition to more detailed information on the biology molecular biology regulatory function and role in human health of phytochemicals All workers in phytochemicals should get themselves a copy of this valuable book Nutrients and Cell Signaling Janos Zempleni, Krishnamurti Dakshinamurti, 2005-04-04 Cell signaling is at the core of most biological processes from the simplest to the most complex In addition to unicellular organisms possessing the essential ability to receive inputs with regard to nutrient availability and noxious stimuli the cells in multicellular organisms require signaling from adjacent as well as distant cells to maintain

Herbal Medicine Iris F. F. Benzie, Sissi Wachtel-Galor, 2011-03-28 The global popularity of herbal supplements and the promise they hold in treating various disease states has caused an unprecedented interest in understanding the molecular basis of the biological activity of traditional remedies *Herbal Medicine Biomolecular and Clinical Aspects* focuses on presenting current scientific evidence of biomolecular ef **Flavonoids and Related Compounds** Jeremy P. E. Spencer, Alan Crozier, 2012-04-24 Flavonoids exert a multiplicity of biological effects on humans and can have beneficial implications for numerous disease states *Flavonoids and Related Compounds Bioavailability and Function* examines current knowledge regarding the absorption metabolism and bioavailability of individual flavonoids and related phenolic compounds Profiling the latest evidence of their impact on various human pathological conditions the book summarizes current thinking with regard to the biotransformation and conjugation of individual compounds in the gastrointestinal tract liver large intestine and cells It highlights a topic that has been largely ignored namely the extent to which dietary phenolics components undergo metabolism in the large intestine It also explores the generation of bacterially derived metabolites Individual chapters discuss which metabolites enter the circulatory system and are likely to offer protective actions against human diseases Edited by internationally recognized leaders in the field the book presents contributions by a panel of experts who demonstrate the potential of flavonoids in ameliorating a range of disease states including cardiovascular disease Alzheimer s and Parkinson s disease and other neurodegenerative disorders and cancer The research presented in this volume provides a reliable starting point for further inquiry and experimentation

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