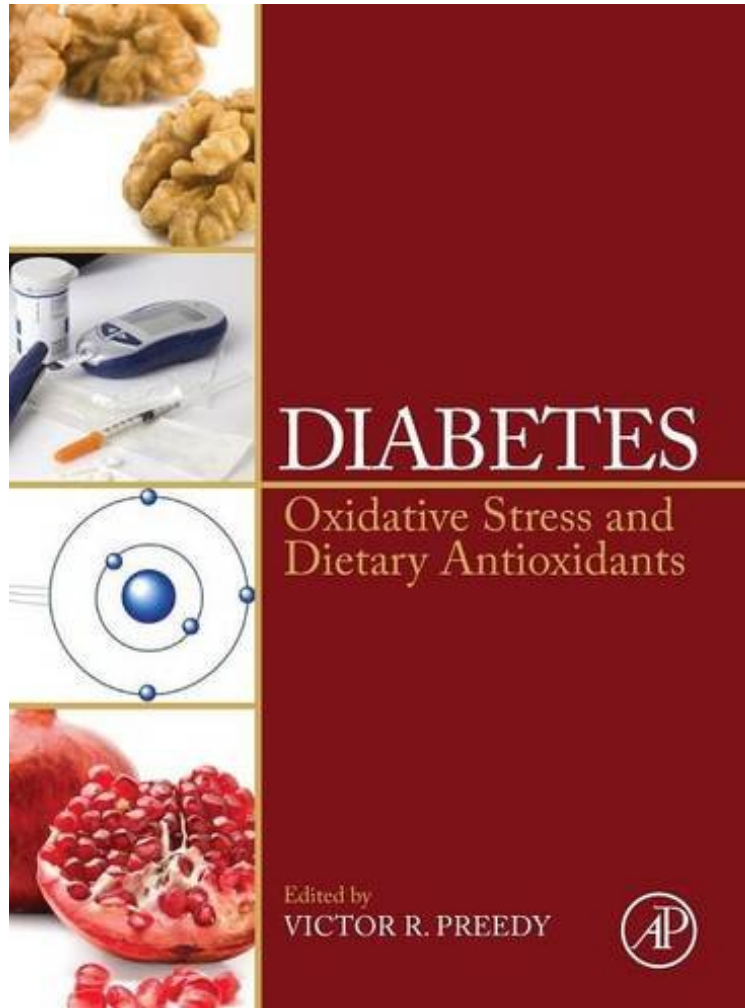


Diabetes: Oxidative Stress and Dietary Antioxidants

From Preedy Victor R

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From Preedy Victor R : Diabetes: Oxidative Stress and Dietary Antioxidants before purchasing it in order to gauge whether or not it would be worth my time, and all praised Diabetes: Oxidative Stress and Dietary Antioxidants:

Diabetes: Oxidative Stress and Dietary Antioxidants bridges the trans-disciplinary divide among diabetologists, endocrinologists, and nutritionists in understanding and treating diabetes. The book covers, in a single volume, the science of oxidative stress in diabetes and the potentially therapeutic use of natural antioxidants in the diet or food matrix. The processes within the science of oxidative stress are described in concert with other processes such as apoptosis, cell signaling, receptor-mediated responses and more. This approach recognizes that diseases are usually multifactorial and that oxidative stress is a single component of this. Pharmacological treatments for diabetes are

commonly marked by unwanted side effects, leading to treatment efforts using naturally occurring substances. But a plant-based approach alone is not sufficient; understanding the processes inherent in the oxidative stress of diabetes is vital for clinical workers, dietitians, and nutritionists. This translational work provides that understanding. The book begins by covering the basic biology of oxidative stress from molecular biology to imaging in relation to diabetes. There are chapters on neuropathy, nephropathy, atherosclerosis, cardiomyopathy, and retinopathy. The book then moves on to antioxidants in foods, including plants, components of the diet, and their relevance to diabetes. Nutritionists will use the information related to mitochondrial oxidative stress in one disease and propose new diet-related strategies to prevent such conditions arising in another unrelated disease. Dietitians will prescribe new foods or diets containing antioxidants for conditions that are refractory by conventional pharmacological treatments. Dietitians, after learning about the basic biology of oxidative stress, will be able to suggest new treatments to their multidisciplinary teams. Nutritionists and dietitians will learn about cell signaling and will be able to suggest preventive or therapeutic strategies with antioxidant-rich foods to reduce damage done by diseases involving abnormal cell signaling.

"Each volume in the Oxidative Stress and Dietary Antioxidants series focuses on the phenomena in a single organ, disease, or pathology. Diabetes takes the spotlight here, with discussions of such matters as mitochondrial oxidative stress in diabetes, antioxidant spices and herbs used in diabetes. The material is for dietitians and nutritionists, food scientists, health care workers, and researchers."--ProtoView.com, February 2014 "The book is written for both practitioners and scientists studying this topic. It is a useful reference for practitioners wanting to expand their available treatment options. This is a comprehensive review of the mechanisms leading to diabetic complications with a specific focus on oxidative stress as well as an important review of antioxidant therapies that have been studied in the diabetic population." Rating: 3 Stars--Doody.com, February 21, 2014

About the Author Victor R. Preedy BSc, PhD, DSc, FRSB, FRSPH, FRCPath, FRSC is a senior member of King's College London. He is also Director of the Genomics Centre and a member of the Faculty of Life Sciences and Medicine. Professor Preedy has longstanding academic interests in substance misuse especially in relation to health and well being. He is a member of the Editorial Board of Drug and Alcohol Dependence and a founding member of the Editorial Board of Addiction Biology. In his career Professor Preedy was Reader at the Addictive Behaviour Centre at The University of Roehampton, and also Reader at the School of Pharmacy (now part of University College London; UCL). Professor Preedy is Editor of the influential works *The Handbook Of Alcohol Related Pathology*, *The Neuropathology of Drug Addictions and Substance Misuse* and *The Handbook of Cannabis and Related Pathologies* (all published by Academic Press-Elsevier). Professor Preedy graduated in 1974 with an Honours Degree in Biology and Physiology with Pharmacology. He gained his University of London PhD in 1981. In 1992, he received his Membership of the Royal College of Pathologists and in 1993 he gained his second doctoral degree (DSc). Professor Preedy was elected as a Fellow of the Institute of Biology in 1995 and also as a Fellow to the Royal College of Pathologists in 2000. He was then elected as a Fellow of the Royal Society for the Promotion of Health (2004) and The Royal Institute of Public Health and Hygiene (2004). In 2009, Professor Preedy became a Fellow of the Royal Society for Public Health and in 2012 a Fellow of the Royal Society of Chemistry. To his credit, Professor Preedy has published over 600 articles, which includes peer-reviewed manuscripts based on original research, abstracts and symposium presentations, reviews and numerous books and volumes.