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Descrizione fisica	1 online resource : illustrations (some color)
Collana	Reference Series in Phytochemistry, , 2511-834X
Disciplina	572
Soggetti	Antioxidants - Health aspects Medicinal plants - Utilization
Lingua di pubblicazione	Inglese
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Nota di contenuto	Antioxidant Resources -- Antioxidant Utilization -- Antioxidants and Health -- Screening, Preservation and Determination Methods for Antioxidants.
Sommario/riassunto	This book provides a comprehensive reference guide to plant-derived antioxidants, their beneficial effects, mechanisms of action, and role in disease prevention and improving general health (anti-ageing effect). The content is divided into three main parts, the first of which covers various antioxidants (such as polyphenols, carotenoids, tocopherols, tocotrienols, glutathione, ascorbic acid), their origins, plant biochemistry and industrial utilization. In turn, the book's second, main part focuses on antioxidants' beneficial health effects, explains biochemical fundamentals such as the free radical theory and oxidative stress, and discusses antioxidants' role in e.g. cancer, cardiovascular diseases, inflammation, degenerative diseases and ageing. The third part reviews general laboratory methods for antioxidant screening, preservation and determination. Written by an international team of experts, this highly interdisciplinary book will benefit a broad range of health professionals and researchers working in biochemistry, biotechnology, nutrition, plant science and food chemistry. It offers an indispensable, up-to-date guide for anyone interested in antioxidants and the role of a plant-based diet in disease prevention and control.

