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Titolo	Recent advances in polyphenol research [[electronic resource] /] / edited by Fouad Daayf, Vincenzo Lattanzio
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ISBN	1-282-68967-3 9786612689673 1-4443-0240-X 1-4443-0241-8
Descrizione fisica	1 online resource (422 p.)
Altri autori (Persone)	DaayfFouad LattanzioVincenzo <1949->
Disciplina	572.2 572/.2
Soggetti	Polyphenols - Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contributors; Preface; Chapter 1 Plant Phenolics - Secondary Metabolites with Diverse Functions; 1.1 Secondary metabolism in the interactions between plants and their environment; 1.2 Function and use of plant phenolics; 1.2.1 UV sunscreens; 1.2.2 Phenolics as signal compounds; 1.2.3 Phenolics as pigments; 1.2.4 Phenolics and plant growth; 1.2.5 Phenolics and plant defense; 1.2.5.1 Fungal pathogens; 1.2.5.2 Phenolics and plant-insect interactions; 1.2.6 Plant phenolics and health; 1.3 Note; 1.4 References Chapter 2 Lignification: are Lignins Biosynthesized via simple Combinatorial Chemistry or via Proteinaceous Control and Template Replication? 2.1 Introduction; 2.2 The current theory; 2.3 Is there a need for a new theory?; 2.3.1 The challenge hypothesis (proteinaceous control and template replication); 2.3.2 Has the challenge hypothesis become a theory?; 2.4 Are criticisms of the current theory valid?; 2.4.1 Lignification as a biochemical anomaly; 2.4.2 The -ether frequency anomaly; 2.4.3 'Obligatory' linkages?; 2.5 Is there anything wrong with the dirigent hypothesis? 2.5.1 Monomer substitution 2.5.1.1 Has monomer substitution been

disproven?; 2.5.1.2 Malleability of lignification: what makes a good monolignol substitute?; 2.5.2 'Well-defined primary structure'; 2.5.2.1 Sequencing of lignin oligomers; 2.5.2.2 Monomer-independent sequences; 2.5.2.3 The 'urgent need to sequence lignin primary structure'; 2.5.3 Lignins' racemic nature; 2.5.3.1 The 'number of isomers' problem; 2.5.4 Comments on template replication; 2.5.5 Polymer branching; 2.6 Why the new hypothesis is not in contention; 2.7 Is lignification a biochemical anomaly? 2.7.1 Ferulate dehydrodimerization is combinatorial 2.7.2 Polysaccharide primary structure is NOT absolutely dictated; 2.8 Summary comments on the dirigent/replication hypothesis; 2.9 Conclusions; 2.10 Notes; 2.11 References; Chapter 3 Flavonoid-Protein Binding Processes and their Potential Impact on Human Health; 3.1 Introduction; 3.2 Biologically relevant chemical properties of flavonoids; 3.3 Binding processes prior to absorption; 3.4 Binding processes involved in flavonoid bioavailability; 3.4.1 Absorption and conjugation; 3.4.2 Transport in plasma 3.4.3 Tissue distribution and cellular metabolism 3.5 Binding processes involved in the potential health effects of flavonoids; 3.5.1 Inhibition of enzymes involved in ROS production; 3.5.2 Modulation of the redox properties of flavonoids by binding to proteins; 3.5.3 Inhibition of protein kinases; 3.5.4 Inhibition of cytochrome P450 enzymes; 3.5.5 Regulation of gene expression; 3.6 Conclusion; 3.7 References; Chapter 4 Methods for Synthesizing the Cocoa-Derived Oligomeric Epi-Catechins - Observations on the Anticancer Activity of the Cocoa Polyphenols; 4.1 Introduction 4.2 Synthesis of procyanidins

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## Sommario/riassunto

Polyphenols are the second most abundant class of substances in nature, and include tannins and flavonoids, many of which have extremely important antioxidant properties which have now been shown to have a key role in the prevention of cancer in humans. This important book covers polyphenol chemistry, biosynthesis and genetic manipulation, ecology and plant physiology, food and nutritional aspects and the effects of polyphenols on health. Included within the contents are cutting edge chapters on biotic and abiotic stress in plants, safety and toxicity in foods, functionality and nutraceutica

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2. Record Nr.	UNINA9910255457703321
Autore	Kennedy Gavin
Titolo	An Authentic Account of Adam Smith / / by Gavin Kennedy
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Palgrave Macmillan, , 2017
ISBN	9783319638027 3319638025
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XV, 212 p.)
Disciplina	330.1509
Soggetti	Economics - History International economic relations Economic history History of Economic Thought and Methodology International Political Economy' Economic History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- 1. General Introduction -- 2. Smith on Bargaining -- 3. The Edinburgh Rhetoric Lectures -- 4. Smith's use of the "Invisible Hand" metaphor -- 5. The myths of the invisible hand -- 6. Smith on Jurisprudence -- 7. The Theory of Moral Sentiments -- 8. Wealth of Nations -- 9. Summary and Conclusions.
Sommario/riassunto	This book is a textual criticism of modern ideas about the work of Adam Smith that offers a new perspective on many of his famous contributions to economic thought. Adam Smith is often hailed as a leading figure in the development of economic theories, but modern presentations of his works do not reflect Smith's actual ideas or influence during his lifetime. Gavin Kennedy believes that his name and his legacy were often appropriated or made into myths in the 19th and 20th centuries, with many misconceptions persisting today. Offering new analysis of works on rhetoric, moral sentiments, jurisprudence, the invisible hand and The Wealth of Nations, the book gives a new perspective on this important canonical thinker. .

