

Nutritional Composition of Fruit Cultivars

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Nutritional Composition of Fruit Cultivars provides readers with the latest information on the health related properties of foods, making the documentation of the nutritive value of historical cultivars especially urgent, especially before they are lost and can't be effectively compared to modern cultivars.

Because there is considerable diversity and a substantial body of the compositional studies directed towards commercial varieties, this information is useful for identifying traits and features that may be transposed from one variety to another.

In addition, compositional and sensory features may also be used for commercialization and to characterize adulteration. Detailed characterization of cultivars can be used to identify "super-foods". Alternatively, unmasked historical cultivars may be the focus of reinvigorated commercial practices.

Each chapter in this book has sections on the botanical aspects, the composition of traditional or ancient cultivars, the composition of modern cultivars, a focus on areas of research, the specialty of the communicating author of each chapter, and summary points.

- Presents the botanical aspects and composition of both traditional and modern plants, including in-depth insight into current research, and overall summary points for each fruit for consistent comparison and ease of reference
- Provides important information in the consideration of preservation, transference, or re-introduction of historical/traditional cultivars into current crop science
- Provides details on compositional and sensory parameters, from aroma and taste to micro- and macronutrients
- Includes data on nutraceuticals and novel components that have proven to impact on, or be important in, food quality, storage, processing, storage, and marketing

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Nutritional Composition of Fruit Cultivars From Academic Press Bibliography

- Sales Rank: #4385900 in Books
- Published on: 2015-11-18
- Original language: English
- Number of items: 1
- Dimensions: 1.70" h x 7.70" w x 9.40" l, 4.05 pounds
- Binding: Hardcover
- 796 pages

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Editorial Review

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Position:Director of Kew Innovation Unit, Deputy Keeper & Head of Sustainable Uses of Plants Group, Jodrell Laboratory, Royal Botanic Gardens, Kew, Richmond, Surrey, UK.

Qualifications and appointments:

•BSc (Hons), Univ. Leeds

•PhD, Birkbeck College, Univ. London

•Fellow Royal Society of Entomology

•Fellow World Innovation Foundation

•Fellow of the Society of Biology

•Fellow of the Linnean Society

•Member of the College of Medicine

•Member of Darwin Initiative Advisory Committee

•Member of Science Advisory Board for the Forestry Commission

•Member of Scientific Advisor Board for International Foundation of Science

•Elected Director of the Association of Good Practise in traditional Chinese medicine

•Editor-in-Chief, Biochemical Systematics and Ecology

•Editorial Board, Phytotherapy Research, Physiological Entomology, Journal of Tropical Medicinal Plants, Natural Product Communications

•Awarded OBE for services to science, the environment, technological innovation and community

Role:

I research the traditional and economic uses of plants and fungi, their potential as cosmetic, novel food, pharmaceutical and agrochemical leads, and as sources of sustainably-harvested products. The research also involves the authentication of plants entering the trade as well as assisting different enforcement authorities identify plants.

I have a long-term interest in furthering our understanding of the role plant-derived compounds play in plant-animal interactions, especially their role in the host selection behaviour of insects. This fundamental knowledge can assist with the identification of plant-derived compounds that have use in pest control as well as in pharmaceutical research. As Deputy Director of Science I play a leading role in the co-ordination of projects with different business sectors that promote and utilise plant and fungal-based solutions to meet current global challenges.

Furthering our knowledge about the historical uses and potential new uses of plants assists support plant conservation and it is vital that there is dissemination of this knowledge in ways that engage with the public, especially the young. The majority of the work of this group is funded through research grants and commercial contracts.

As Deputy Director of Science I am involved in the development and implementation of a new science strategy for Kew, to focus and enhance its world-leading science and conservation work, strengthen its position as a global resource for plant and fungal knowledge, and promote plant and fungal-based solutions to current global challenges.

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.

Users Review

From reader reviews:

Michael Johnson:

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Kristy Lange:

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Patricia Lopez:

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Helen Leavitt:

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