COMMENT OPEN



Sugar substitutes and taste enhancers need more science, sensitivity- and allergy-guided labeling

D. A. Steindler (3) 515

There is new attention to food safety resulting from the second White House Conference on Hunger, Nutrition, and Health, as well as new advisories from the World Health Organization calling for more research on sugar substitutes because of possible cancer risks. Together they point to a need for rethinking how we study sugar substitutes and taste enhancers as potentially contributing to adverse health changes. In addition to the need for more research on sweeteners and taste enhancers, including the use of sensitive bioassays, and epidemiological and human clinical trial studies, there should be a call for better truth in labeling, especially including single names for such dietary elements that would afford easier recognition and potential avoidance by those with sensitivities and allergies.

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On the heels of the second, some 50 years after the first, "White House Conference on Hunger, Nutrition and Health", along with the "Biden-Harris Administration National Strategy on Hunger, Nutrition and Health', food safety is an important area of focus. The World Health Organization cancer agency's recent advisory on the artificial suveetener, aspartame, and its potential cancer risk, in addition to their new quideline on not using non-sugar sweeteners for body weight control, all together signal a need to revisit how to best study sugar substitutes and other food additives for their potential negative physiological actions as their presence grows in our food supply. This also follows two studies of the NutriNet-Santé population-based cohort that have linked both "artificial sweeteners" as well as "sugar consumption" itself with potentially elevated cancer risks12. Two more recent studies on aspartame¹ and erythritol⁴ have brought additional interest in food safety and better product labeling of sweeteners (with most of the field and practitioners recognizing the availability of these sugar substitutes as being needed for those with certain health issues including obesity, diabetes, and heart disease) and flavor enhancers. Of course, sugar itself is contraindicated for these health issues, and should also be studied in all of the paradigms and models discussed here, but like sugar, enhancing the umami taste with additives can also lead to obesity, metabolic syndrome, and brain, e.g., hypothalamic, inflammation which has been described as, "...mediated by nucleotide degradation and unic acid generation...... The 1969 White House Conference on Food, Nutrition, and Health was organized by Dr. Jean Mayer, for whom the previous institution of food and nutrition science where I was privileged to work was named. Professor Mayer also studied a controversial, umami taste-enhancing food additive, monosodium glutamate ("MSG"), in animal models", and it is still controversial today. Kanarek et al.'s" findings on deficits in caloric restriction and juvenile-onset obesity, along with Mayer's advocacy and similar reports from other groups, ultimately led to baby food manufacturers suspending MSG use after Congressional Hearings guestioned its safety. A conclusion will be reached here that more research and thoughtful product labeling will help the cause of food safety in general, as new consumables and warnings are

introduced. In a constantly changing landscape from both new product introductions and new research findings, an open mind is warranted when it comes to supporting or challenging regulation.

There are many critical questions with both the Jones et al. and Witkowski et al." studies, but together they provide a powerful impetus for industry and government to come together to help remove stigma over debate of adverse health effects of food additives. This is needed in the meantime until we have better modeling and studying of the distinct human omics, including metabolomics, of food sensitivities within a heterogeneous population offering better stratification of at-risk populations with sensitivities and allergies. This ultimately will lead to easier scrutiny of substances that can trigger adverse health events in certain susceptible individuals who now rely almost totally on truth in labeling, or more accurately, sensitivity- and allergyguided labeling (since current labeling usually does include names for food components that are truthful, but because of the pervasive use of pseudonyms for many of these additives, it is not obvious or clear enough for easy recognition of any food component that may be undesirable for those with health issues. allergies or sensitivities). All of us are at risk for unrecognized dietary elements that could contribute to potentially serious allergies and sensitivities". Building on the needed use of highly sensitive models and bioassays, and comparisons with carefully run patient studies to determine the actions of dietary components, this Comment hopes to expand the awareness of the significance of studies like these that aim to uncover pathophysiological changes from the consumption of certain food additives. This issue has now been brought to light again from the findings in these new studies on the dietary consumption of artificial sweeteners, aspartame, and erythritol ..., and raises concern again about the safety of additives in our food supply, with potentially adverse health effects that range from neurological to cardiovascular changes. Of considerable concern, the aspartame study reported a transgenerational passage of molecular and physiological changes in the amygdala of a robust animal model, that led to altered neurotransmission and changes in behavior including anxiety in descendants of users. Jones et al.

¹The Eshelman Institute for Innovation, The University of North Carolina at Chapel Hill and Steindler Consulting, Boston, MA, USA. ²⁰email; stemceliguy@gmail.com; dissteind@email.unc.edu



Sugar Substitutes And Enhancers

Vishwanath Sardesai

Sugar Substitutes And Enhancers:

Sugar Substitutes and Enhancers Nicholas Pintauro.1973 **Health and Sugar Substitutes** B. Sweeteners and Sugar Alternatives in Food Technology Kay O'Donnell, Malcolm Guggenheim, 1979-03-23 Kearsley, 2012-07-13 This book provides a comprehensive and accessible source of information on all types of sweeteners and functional ingredients enabling manufacturers to produce low sugar versions of all types of foods that not only taste and perform as well as sugar based products but also offer consumer benefits such as calorie reduction dental health benefits digestive health benefits and improvements in long term disease risk through strategies such as dietary glycaemic control Now in a revised and updated new edition which contains seven new chapters part I of this volume addresses relevant digestive and dental health issues as well as nutritional considerations Part II covers non nutritive high potency sweeteners and in addition to established sweeteners includes information to meet the growing interest in naturally occurring sweeteners Part III deals with the bulk sweeteners which have now been used in foods for over 20 years and are well established both in food products and in the minds of consumers In addition to the traditional polyol bulk sweeteners newer products such as isomaltulose are discussed These are seen to offer many of the advantages of polyols for example regarding dental heath and low glycaemic response without the laxative side effects if consumed in large quantity Part IV provides information on the sweeteners which do not fit into the above groups but which nevertheless may offer interesting sweetening opportunities to the product developer Finally Part V examines bulking agents and multifunctional ingredients which can be beneficially used in combination with all types of sweeteners and sugars **CRC Handbook of Food Additives. Second Edition** Thomas E. Furia.1980-07-29 Alternative Sweeteners Lyn O'Brien-Nabors, 2016-04-19 The fourth edition of Alternative Sweeteners follows the same formula as the previous three books by discussing each sweetener in terms of its characteristics Qualities covered include means of production physical characteristics utility and relative sweetness compared to sucrose Technical qualities covered include admixture potential application availability shelf life transport metabolism carcinogenicity and other toxicity evaluation data A new chapter on the sweetener Advantame has been added and new contributors have updated information throughout the book Also new is a section on how stevia sweeteners have been examined and deemed safe by the Joint FAO WHO Expert Committee on Food Additives and the US FDA Introduction to Clinical Nutrition, Third Edition Vishwanath Sardesai, 2011-10-11 Dietary factors have been implicated in at least four of the ten leading causes of death in the U S heart disease cancer diabetes and stroke Nevertheless physicians frequently receive inadequate training in nutrition to properly counsel their patients Introduction to Clinical Nutrition Third Edition discusses the physiologic and metabolic interrelationships of all nutrients and their roles in health maintenance and the prevention of various diseases Since the publication of the second edition of this book new discoveries have revolutionized the field of clinical nutrition This is true especially with respect to gene nutrient interaction epigenetic

pathways that contribute to the activation and inactivation of gene expression the relationship of nutrients to telomere length and health and personalized nutrition Highlighting these advances new and revised topics include Fiber antioxidants nutraceuticals alternative medicine and epidemiology DNA gene nutrient interaction epigenetics and telomeres Nutritional aspects of kidney disease diabetes and metabolic syndrome Personalized nutrition and personalized medicine Vegetarianism the Mediterranean diet and other popular dietary practices Obesity and cholesterol Designed as a textbook for students in conventional medicine osteopathy dentistry dietetics nursing pharmacy and public health the book focuses on the critical biochemical and physiological aspects of nutrients It includes clinical case studies to clarify topics at the end of most chapters and references to facilitate further study Sweeteners and Sugar Alternatives in Food Technology Helen Mitchell, 2008-04-15 Sugar replacement in food and beverage manufacture no longer has just an economic benefit The use of ingredients to improve thenutritional status of a food product is now one of the majordriving forces in new product development It is therefore important as options for sugar replacement continue to increase that expert knowledge and information in this area is readilyavailable Sweeteners and Sugar Alternatives in Food Technologyprovides the information required for sweetening and functional solutions enabling manufacturers to produce processed foods that not only taste and perform as well as sugar based products butalso offer consumer benefits such as calorie reduction dentalhealth benefits digestive health benefits and improvements in longterm disease risk through strategies such as dietary glycaemiccontrol Part I of this comprehensive book addresses these healthand nutritional considerations Part II covers non nutritive high intensity sweeteners providing insights into blending opportunities for qualitative and quantitative sweetness improvement as well as exhaustive application opportunities PartIII deals with reduced calorie bulk sweeteners which offer bulkwith fewer calories than sugar and includes both the commercially successful polyols as well as tagatose an emerging functional bulks weetener Part IV looks at the less well established sweetenersthat do not conform in all respects to what may be considered to bestandard sweetening properties Finally Part V examines bulkingagents and multifunctional ingredients Summary tables at the end of each section provide valuable concentrated data on each of thesweeteners covered The book is directed at food Sugar Substitutes and Enhancers Roger Daniels,1973 scientists and technologists as well as ingredients suppliers

FUNDAMENTALS OF ENVIRONMENTAL CHEMISTRY Dr. Babita M Sakdeo,2017-02-14 Environmental Chemistry is now a fully developed viable and exciting branch of science It is the application of chemical principles to the maintenance and enhancement of environmental quality the biggest challenge facing mankind today Scientist professional and individuals need to have some know ledge of environmental chemistry if they want to make a meaningful contribution to the improvement of environment For this chemistry has a special role to play as it helps in understanding the environmental changes logically and scientifically **Sugar Substitutes and Enhancers [by] Roger Daniels** Nicholas Pintauro,1973

Sugar Substitutes And Enhancers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Sugar Substitutes And Enhancers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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