



Review

New Perspectives in Food Allergy

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Abstract: The improvement of the knowledge of the pathophysiological mechanisms underlying the tolerance and sensitization to food antigens has recently led to a radical change in the clinical approach to food allergies. Epidemiological studies show a global increase in the prevalence of food allergy all over the world and manifestations of food allergy appear increasingly frequent also in elderly subjects. Environmental and nutritional changes have partly changed the epidemiology of allergic reactions to foods and new food allergic syndromes have emerged in recent years. The deepening of the study of the intestinal microbiota has highlighted important mechanisms of immunological adaptation of the mucosal immune system to food antigens, leading to a revolution in the concept of immunological tolerance. As a consequence, new prevention models and innovative therapeutic strategies aimed at a personalized approach to the patient affected by food allergy are emerging. This review focuses on these new perspectives and their practical implications in the management of food allergy, providing an updated view of this complex pathology.

Keywords: food allergy; immune tolerance; allergic sensitization; gut microbiota; mucosal immunity; food allergy treatment; translational immunology

1. Introduction

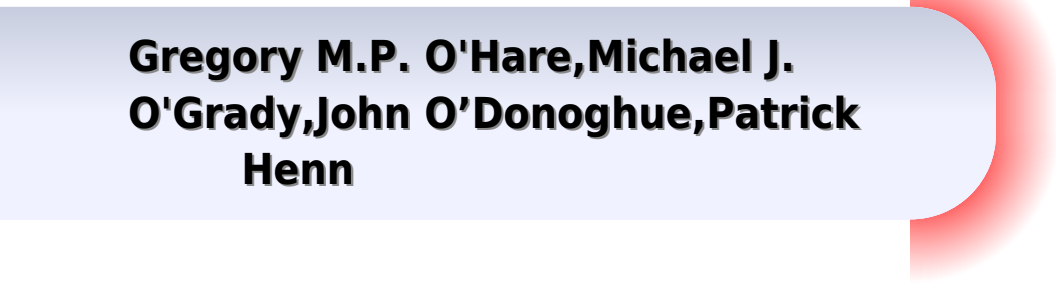
Food allergy (FA) is an adverse reaction to a specific food antigen, normally harmless to the healthy population, which is mediated by immunological mechanisms and arises in an individual susceptible to that specific allergen [1,2].

FA, therefore, differs from adverse reactions caused by toxins or pathogens contained in the food, as well as from the so-called food intolerances, which exhibit the same symptoms but recognize different pathogenetic mechanisms. Intolerances are defined as nonimmune reactions, mediated by toxic, pharmacological, metabolic, and undefined mechanisms. Milk intolerance due to the deficiency of the enzyme lactase, normally present in the brush border of the intestinal mucosa, and adverse reactions to foods characterized by a high histamine content or histamine-liberating substances, such as strawberries, chocolate, alcoholic drinks, and fermented cheeses, are examples of nonimmune mediated food intolerances [3]. In the past, FAs and intolerances were often confused with each other, due to their clinical similarity. Moreover, the same food is often responsible for both intolerance and allergy, rendering diagnosis difficult.

What distinguishes FA from other adverse reactions to foods is, therefore, the underlying pathogenetic mechanism: FA is an adverse reaction arising from a specific immune response that occurs reproducibly on exposure to a certain food. Moreover, based on the specific

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**Gregory M.P. O'Hare, Michael J.
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Food Allergy John W. Gerrard,1980-01-01 **New Insights in Anaphylaxis** Vanesa Esteban,Carlos Pastor-Vargas,2018-04-20 Anaphylaxis has usually been studied and understood from an immunological view and the main lethal effects involve the cardio vascular system Despite exhaustive efforts exerted in this area of research much more investigation is needed to mitigate recognize or prevent this disease The scope of this Research Topic is to present and discuss the current knowledge of anaphylaxis from the clinic to the underlying molecular mechanisms We are thankful to the medical doctors researchers and colleagues who have contributed to this issue as it would not have been possible without their highly valuable expertise in allergy and anaphylaxis research [A New Perspective on Orthomolecular Medicine](#) Chris Reading,2012-04-24 In this major collection of articles Dr Chris Reading confirms his pre eminence in the field of orthomolecular medicine Ranging from topics such as the biochemistry of mental illness to cancer to ways to protect against Alzheimer s Disease these writings are not only the presentation of brilliant and original research but encourage us to understand illness in a broader and more humanistic way This is a remarkable book by one of the most original voices in holistic medicine today [Physiological Perspectives on Food Safety: Exploring the Intersection of Health and Nutrition](#) Tanmay Sarkar,Ahmed Hamad,Ayan Chatterjee,2025-07-11 As food safety concerns become increasingly prevalent understanding the physiological implications of foodborne pathogens contaminants and additives is essential for safeguarding public health Physiological Perspectives on Food Safety Exploring the Intersection of Health and Nutrition is a groundbreaking exploration that illuminates the dynamic relationship between food safety and human physiology This work delves deep into the physiological mechanisms underlying the safety of the foods we consume offering invaluable insights into how our bodies interact with and respond to the foods we eat Bridging the gap between the fields of food science and human physiology Physiological Perspectives on Food Safety Exploring the Intersection of Health and Nutrition synthesizes cutting edge research to provide a holistic understanding of the complex interactions between food safety and human health By exploring topics such as digestive physiology immune function metabolic health and neurological effects this work sheds light on how food safety practices can impact physiological processes at every stage of life Through its rigorous analysis practical insights and forward thinking approach Physiological Perspectives on Food Safety promises to be an indispensable resource for anyone seeking to deepen their understanding of the physiological underpinnings of food safety and its implications for human health and nutrition It will serve as a vital resource for researchers healthcare professionals policymakers and beyond **Aptasensors for Food Safety** Raju Khan,Ayushi Singhal,Rajan Sharma,Y S Rajput,2024-10-04 This reference book provides updated knowledge on fundamentals and applications of aptasensors in food science It discusses aptamer selection strategies including Systematic Evolution of Ligands through EXponential enrichment SELEX Capture SELEX Cell SELEX and GO SELEX strategies for aptasensor design involving well studied and newly emerged

nanomaterials food analysis focusing on its safety aptasensing techniques relevant to detection of food pathogens pesticides veterinary drug residues toxins heavy metals allergens and future perspectives of aptamers in food science and technology The book focuses on recent developments in aptasensors and their use in detection of contaminants in food The book is an excellent resource for R D organizations dedicated to the development of biosensors in general and aptasensors in particular for the detection of environmental contaminants in the food supply chain Also the contents of the book will be useful to researchers postgraduate students analytical chemists food scientists and regulatory authorities The Waterfall Diet Linda Lazarides,2016-05-26 Do you eat next to nothing and exercise for hours every week but find it impossible to lose weight Do your friends seem to eat what they like but if you so much as look at a cake you pile on the pounds If so your problem may not be too much fat but too much fluid THE WATERFALL DIET is a revolution in dieting Linda Lazarides reveals that many women who are trying to lose weight 40% of the female population would lose weight more effectively if they controlled fluid retention Linda shows you how to easily identify if fluid retention is your problem and help you to safely lose a stone in seven days This revised and updated edition focuses more attention to the health benefits of dealing with water retention which is a major cause of high blood pressure as well as overweight It is also more practical as the author proves a 7 day menu plan and provides clearer instructions on how to follow the diet The new edition will also include a section on water retention in pregnancy and testimonials and feedback from followers of THE WATERFALL DIET Bioactive Egg Compounds Rainer Huopalahti,Rosina López-Fandiño,Marc Anton,Rüdiger Schade,2007-05-19 Hen eggs have exceptional potential as an inexhaustible source for a variety of products with unique properties These products are valuable to human health and nutrition and can be used as raw materials for diverse purposes in the cosmetics and pharmaceutical industries Bioactive Egg Compounds presents the latest results and concepts in the biotechnological use of egg compounds Following an introduction to the different compounds of egg white yolk and shell the nutritive value of egg compounds is discussed Procedures for processing egg compounds to improve their nutritive value are described including the concept of so called enriched eggs Also described is the isolation and application of egg compounds with special properties such as antibiotic action The chapters are by authors from 12 countries all renowned specialists who are active in various fields of egg research such as quality control biochemistry biophysics and biotechnology *Index Medicus* ,2001 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **The Yeast Connection** William G. Crook,2010-11-03 An in depth guide on how to suspect identify and over come those health problems in people of all ages and sexes that can be traced to sensitivity to the yeast germ candida albicans The Yeast Connection also includes 1 Easy to follow diet instructions 2 Information about laboratory studies and tests prescription and nonprescription medications and treatment with candida vaccines 3 A discussion of the yeast connection to AIDS suicidal depression and sexual dysfunction 4 Recommendations for vitamins minerals vegetable oils garlic and Lactobacillus acidophilus 5 MUCH MUCH MORE Yeast connected health problems can be traced

from the following symptoms Fatigue Irritability Premenstrual syndrome PMS Digestive disorders Muscle pain Short attention span Headache Memory loss Vaginitis Skin problems Impotence Hyperactivity Depression Hypoglycemia Menstrual problems Urinary disorders Respiratory problems Learning difficulties

Quick Bibliography Series ,1976 **Chemical Sensitivity** William J. Rea,1995-11-08 The volumes that comprise Chemical Sensitivity are the first major scientific books to be published on chemical sensitivity a growing world wide health problem These volumes present clinical experiences in diagnosing and treating chemical sensitivity in over 20 000 patients under controlled conditions

Advanced Therapy of Inflammatory Bowel Disease: Ulcerative Colitis (Volume 1), 3e Theodore M. Bayless,2011 Rev ed of Advanced therapy of inflammatory bowel disease edited by Theodore M Bayless Stephen B Hanauer 2001 *Pediatric Neurogastroenterology* Christophe Faure,Nikhil Thapar,Carlo Di Lorenzo,2016-11-25 This volume provides a comprehensive and up to date theoretical review and practical guide on pediatric gastrointestinal motility and functional disorders The latest edition includes extensively revised and new chapters to reflect the rapidly growing field of pediatric neurogastroenterology New topics covered include neurobiology of pain in children functional oropharyngoesophageal assessment dysautonomia and psychotropic drugs The text also features instructive illustrations photographs and tables Written by world renown experts in the field *Pediatric Neurogastroenterology Gastrointestinal Motility and Functional Disorders in Children* Second Edition is a valuable resource for pediatric gastroenterologists adult gastroenterologists pediatricians and all professionals involved in the treatment and management of children with such disorders

Iscontour 2022 Tourism Research Perspectives Christian Maurer,2022-05-16 The International Student Conference in Tourism Research ISCONTOUR offers students a unique platform to present their research and establish a mutual knowledge transfer forum for attendees from academia industry government and other organisations The annual conference which is jointly organized by the IMC University of Applied Sciences Krems and the Management Center Innsbruck takes place alternatively at the locations Krems and Innsbruck The conference research chairs are Prof FH Mag Christian Maurer University of Applied Sciences Krems and Prof FH Mag Hubert Siller Management Center Innsbruck The target audience include international bachelor master and PhD students graduates lecturers and professors from the field of tourism and leisure management as well as businesses and anyone interested in cutting edge research of the conference topic areas The proceedings of the 9th International Student Conference in Tourism Research include a wide variety of research topics ranging from consumer behaviour tourist experience information and communication technologies marketing destination management and sustainable tourism management

Food Safety of Proteins in Agricultural Biotechnology Bruce G. Hammond,2007-11-28 With contributions from internationally recognized experts Food Safety of Proteins in Agricultural Biotechnology comprehensively addresses how toxicology testing of proteins should be accomplished and how protein safety assessments should be carried out Beginning with a background on protein biology the book delineates the fundamental difference

Baby Matters.

Revised 2nd Ed., What Your Doctor May Not Tell You About Caring for Your Baby Linda F. Palmer, DC, Early parenting and health care choices make a huge difference in your baby's health and wellbeing. This book is filled with caring advice based on the latest scientific research on key issues of infant care: a rare overview of information too often missing from parenting circles, pediatric offices, and financially motivated product promotions. Why exclusive breastfeeding is so beneficial. How you can reduce crying, colic, food allergy, and illness in your baby. What you can do to optimize your child's nutrition and avoid the ADHD, colitis, diabetes, osteoporosis, and obesity now epidemic in the U.S. How you can raise securely bonded children more likely to become responsive teenagers and emotionally healthy adults. In a warm and down-to-earth style, *Baby Matters* provides the hard-to-find facts you need to make informed parenting choices for healthier, happier children with brighter futures. Book jacket. *Allergens and Allergen Immunotherapy, Second Edition* Richard F. Lockey, 1998-09-30. Researchers and clinicians relate their experience with immunotherapy using antigens, which has remained important throughout the enormous advances in immunology over the past 30 years. Among the topics are a historical perspective, outdoor and indoor allergens, venoms, the preparation and administration of extracts and reactions, and other adverse effects. Annotation copyrighted by Book News Inc., Portland, OR. *Allergens and Allergen Immunotherapy* Richard F. Lockey, 2004-03-10. Enlarged to describe more than a decade of advances in the immunotherapy of allergic diseases and asthma, this Third Edition contains the most recent studies on the mechanisms, manufacture, and standardization of various allergen groups and their utilization in the treatment of allergic diseases, containing 8 new chapters detailing various pharmacologic *Management of Food Allergens* Jacqueline Coutts, Richard Fielder, 2009-07-15. One of the greatest challenges facing the food industry is providing safe food to an ever-increasing number of allergic consumers through a global supply chain. Approximately 2-4% of western adults and up to 10% of children are currently thought to be sensitive to food allergens, and the issue is of major commercial significance to food manufacturers. The market for free-from foods has grown dramatically in recent years, and the demand for gluten- and dairy-free foods shows no sign of abating in the foreseeable future. This volume provides an overview of the safe management of food allergens, aiming to help all those with a vested interest in understanding how to protect consumer health through good manufacturing practice and clear labelling advice. It examines the risk management systems and practices being adopted by the food industry to tackle the growing hypersensitivity of consumers to a range of food proteins. The various aspects of the subject are addressed from a range of perspectives, including that of researcher, food manufacturer, enforcement officer, clinician, and consumer. There will be an emphasis on the scientific analysis of food and environmental samples and their use in verifying in-process controls and finished product labelling claims. The book is directed at food scientists and technologists, based in industry and research, quality assurance personnel, clinicians, and public health officials. Wireless Mobile Communication and Healthcare Gregory M.P. O'Hare, Michael J. O'Grady, John O'Donoghue, Patrick Henn, 2020-05-27. This book constitutes the refereed post-conference proceedings of the 8th

International Conference on Mobile Communication and Healthcare MobiHealth 2019 held in Dublin Ireland in November 2019 The 26 revised full papers were reviewed and selected from 45 submissions and are organized in topical sections on mobility and real time assessment remote patient monitoring patient monitoring and assessment of ICT solutions patient monitoring and robotics wearable technologies and smart measurement data management within mHealth environments

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