

MEDICAL INTELLIGENCE UNIT

Olivier Morteau

# Oral Tolerance:

The Response of the Intestinal  
Mucosa to Dietary Antigens

  
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# [PDF] Oral Tolerance: Cellular And Molecular Basis, Clinical Aspects, And Therapeutic Potential (Medical Intelligence Unit)

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**Oral Tolerance**-Olivier Morteau 2004-08-10 Oral tolerance is a major immunological property of the gastrointestinal mucosa. It plays a critical role in immune defence by preventing inflammatory and allergic responses to dietary and non pathogenic microbial antigens. The interest in oral tolerance has been renewed in the recent years, due to novel insights on its cellular mechanisms and potential clinical applications in the treatment of autoimmune diseases. Oral Tolerance: Cellular and Molecular Basis, Clinical Aspects, and Therapeutic Potential, has been designed as a concise yet comprehensive overview of the newest fundamental and clinical advances in the field. Based on the outstanding contribution of world experts, this book will be helpful to students, clinicians, and researchers working in mucosal immunology and gastroenterology. The first part of this volume describes the structure and functions of the gastrointestinal mucosa and the fundamental features and mechanisms of oral tolerance, including the role of T cells, cytokines, IgA antibodies, and bacterial antigens. The second part explores the clinical implications of the disruption of oral tolerance in Inflammatory Bowel Diseases, food and milk allergies, and coeliac disease in particular. The final chapter focuses on the clinical potential of oral tolerance as a promising therapeutic tool.

**Cellular and Molecular Immunology**-Abul K. Abbas 1994

**Biomedical Index to PHS-supported Research**- 1994

**Mucosal T Cells**-Thomas T. MacDonald 1998 There are more T cells in the gastrointestinal tract and lung than in the rest of the body combined. The aim of this book is to cover all the important aspects of the biology of these cells in animals and in man. Basic observations are described as well as disease states where aberrant activation of mucosal T cells causes tissue damage. The continuing discovery of features of mucosal T cells which make them different from T cells in the periphery is a consistent theme throughout the text. Topics discussed include new developments in understanding why the characteristic response of mucosal T cells to soluble antigens is tolerance, the role of the gut epithelium in intestinal immunity, the molecular basis by which T cells home to the gut mucosa, the functions of  $\gamma\delta$  T cells, the discovery of a new lymphoid organ - the cryptopatch - in the mouse gut, and the remarkable oligoclonality of the  $\alpha\beta$  and  $\gamma\delta$  T cells in the gut epithelium. In more disease-related sections, the way in which T cells play a role in asthma and protection from parasite infection, and how they cause inflammatory bowel disease in man and animals are described. Providing an excellent survey of the field, this book is a valuable resource for both basic scientists and clinicians interested in intestinal immunology and gastrointestinal disease.

**Janeway's Immunobiology**-Murphy, Kenneth M. 2016-03-22 Explore the premier text for immunology at the advanced undergraduate, graduate, and medical school levels. Beginning students appreciate the book's clear writing and informative illustrations, while advanced students and working immunologists value its comprehensive scope and depth. This edition is thoroughly revised and up to date with significant developments in the field, especially on the topic of innate immunity.

**Handbook of Mucosal Immunology**- 2012-12-02 Researchers have recently made tremendous progress in the area of mucosal immunology, greatly increasing our understanding of the common mucosal immune system, mucosal infections, and oral immunization. However, this research has not previously been made available in a single work. In its large 8 1/2"x

11" format, Handbook of Mucosal Immunology covers the entire spectrum of mucosal immunity and is organized in two main sections to present the basic biology of the common mucosal immune system and the immune responses of the mucosae. The first section provides an introduction and historical perspective of the mucosal immune system and includes comprehensive discussion of the development and physiology of mucosal defense. It discusses such topics as the structure and function of the mucosal epithelium, characteristics of mucosal-associated lymphoid tissue (MALT), Peyer's patches, and concepts of mucosal vaccines. The second section focuses on the secretory immune system with special reference to mucosal diseases in the digestive (GALT), respiratory (BAL), and genitourinary tracts. This information is especially important in light of the current interest in the mechanisms, transmission, and prevention of infectious diseases such as AIDS, hepatitis, and tuberculosis. Virtually all chapters have been authored by the original investigators responsible for key observations on which current concepts are based. This handbook will be an invaluable resource for a diverse group of both researchers and practicing clinicians. Molecular biologists, immunologists, veterinarians, public health workers, physicians in specialties from pediatrics to pulmonology, and graduate students of mucosal immunology will all find this handbook the most complete work on the subject.

**Principles of Cellular and Molecular Immunology**-Jonathan M. Austyn 1993 A comprehensive basis for a complete course in modern cellular and molecular immunology, this is the ideal textbook for undergraduate science students and clinicians. Arranged around a 'map' of the immune system, each chapter focuses on a different topic. The information is presented in a logical order and diverse threads are drawn together to illustrate the emerging principles of the subject. Starting from the basic principles, the book builds up a sophisticated and fascinating picture of this complex but exciting subject, explaining the latest thinking and indicating areas of hot debate. Illustrated with more than 300 two-colour drawings and halftones, the lively design incorporates a summary diagram for each chapter highlighting the key points of discussion. An invaluable overview of the subject that will also allow researchers to place their experimental results in a wider context.

**Cumulated Index Medicus**- 1994

**Proceedings of the National Academy of Sciences of the United States of America**-National Academy of Sciences (U.S.) 2005

**Cancer and IgE**-Manuel L. Penichet 2010-01-23 Erika Jensen-Jarolim and Manuel L. Penichet 1. 1 Background Infectious diseases, being the major burden in the history of mankind worldwide until the beginning of the 20th century, were important triggers in the understanding of immunological mechanisms. In contrast to infectious diseases, reports of allergies and cancers were less common, but increased tremendously within the last century. Based on the US mortality data of the National Center for Health Statistics, Centers for Disease Control and Prevention 2009, a recent report from the American Cancer Society indicated that the number of cancer deaths increased approximately from 100,000 to 550,000 per year between 1930 and 2006, paralleling the increase of the total population during this period. Leading causes of death from cancer are lung and bronchus cancer, in men prostate cancer, and in women breast cancer [1, 2]. Normalization to population size shows that the cancer death rate for most malignancies has been generally stable, although the mortality rate of certain malignancies, such as lung and bronchus cancer, has increased over the last 50 years [1-3]. In allergy, the situation is less clear, because for the time period around the turn of the 19th century, only imprecise information is available. However, within the last 30 years the incidences of allergies has

doubled not only in industrial countries, but in developing countries as well [4].

**Allergy, Immunity and Tolerance in Early Childhood**-Hans Ulrich Wahn 2015-09-10 Allergy, Immunity and Tolerance in Early Childhood: The First Steps of the Atopic March provides valuable insights on the atopic diseases, including asthma, allergic rhinitis, atopic dermatitis, and food allergies, which have developed into major health problems in most parts of the world. As the natural history of these chronic diseases has been extensively studied, including their major genetic, environmental, and lifestyle determinants and potential protective factors, the book presents tactics on how pediatric allergists can provide early intervention. In addition, the book unites key, global experts in the field who summarize their collective, and current, knowledge of the early stage of the "Atopic March", along with novel ideas for potential options of prevention. Summarizes the current knowledge of the epidemiological, genetic, and cellular basis of allergic diseases Ideal reference for the study of allergies in young children, atopic dermatitis, allergic rhinitis, childhood asthma, and food allergies Provides landmark findings in the field of immunology and allergy development Fulfills the need for a book that focuses on primary and secondary allergy prevention, especially during the first years of life Unites key, global experts in the field who summarize their collective, and current, knowledge, along with novel ideas for potential options of prevention

**Oral Tolerance**-Howard L. Weiner 1996 Presents papers and poster abstracts from the spring 1995 title conference held in New York City, detailing mechanisms of oral tolerance and immune regulation. Sections on anatomy and physiology; mechanisms of oral tolerance; modulation of oral tolerance; and human and animal models of oral toleranc

**Primer on Transplantation**-Douglas J. Norman 1998

**Index Medicus**- 2004

**Mucosal Immunity**-Lloyd Mayer 2005

**Oral Biology at the Turn of the Century**-B. Guggenheim 1998 The swift pace of research in oral biology during the past decade has made it difficult to gain a comprehensive overview even in this narrow field. 'Oral Biology at the Turn of the Century' contains the lectures and summaries of discussion sessions held at the international symposium commemorating the thirtieth anniversary of the European Research Group on Oral Biology (ERGOB) in Interlaken. It is a timely volume presenting exciting insights on the epidemiology of oral diseases, orofacial patterning and regeneration, host-microbial interactions, the role of saliva in health and disease, and future strategies for controlling and engineering processes in the oral cavity. This publication, providing a summary of contemporary oral biology based on the latest techniques in epidemiology and molecular and cellular biology, will be very valuable to both clinicians and researchers.

**The Journal of Immunology**- 2007

**Human Intraepithelial Lymphocytes**-Carina Lundqvist 1995

**Principles of Molecular Rheumatology**-George C. Tsokos 2000-07-24 George Tsokos and a panel of authoritative clinicians and researchers synthesize the latest findings from across cell and molecular biology with the basic principles of rheumatology to create the first textbook of molecular rheumatology. These established experts describe the biochemical mechanisms by which apoptosis, cell signaling, complement, lipids, and viruses contribute to disease expression, and detail both immune and nonimmune cell function in rheumatic diseases. Their review of the major rheumatic diseases integrates the cellular, biochemical, and molecular biological mechanisms that are important in rheumatic disease pathogenesis. Path-breaking and illuminating, Principles of Molecular Rheumatology expands the envelope of clinical understanding to reveal the biological roots underlying rheumatologic disease, as well as the nature and roles of the powerful new therapeutics now emerging for its optimal treatment.

**Journal of the Royal Society of Medicine**-Royal Society of Medicine (Great Britain) 1995 Includes selected papers from meetings of the Society

and of its sections.

**Viral Gastroenteritis**-Lennart Svensson 2016-06-27 Viral Gastroenteritis: Molecular Epidemiology and Pathogenesis provides a comprehensive review of research on viruses causing acute gastroenteritis in infants and young children, including coverage of rotaviruses, human caliciviruses, astroviruses, enteric adenoviruses, and viruses causing gastroenteritis more rarely. Includes general chapters on gastrointestinal physiology and pathophysiology, gastrointestinal immune mechanisms, immunodeficiencies and host genetics influencing susceptibility to viral gastroenteritis, and therapeutic and preventative approaches. The book also includes special sections on virus particle structures, replication cycles, pathogenesis, immunology, epidemiology, and preventative measures. This book covers both basic science and translational applications and is an appropriate resource for virologists, molecular biologists, epidemiologists, gastroenterologists, vaccinologists, and those with an interest in public health. Features new approaches in diagnosis and characterization of viral gastroenteritis pathogens Includes coverage of therapeutic and preventative methods Covers recent advances in characterizing the molecular biology and immune responses of rotaviruses and noroviruses Covers both basic science and translational applications and is an appropriate resource for virologists, molecular biologists, epidemiologists, gastroenterologists, vaccinologists, and those with an interest in public health

**The Journal of Rheumatology**- 1993

**Directory of Postgraduate Studies 2002**-Hobsons Publishing, PLC 2001

**Oral Microbiology in Periodontitis**-Sonia Bhonchal Bhardwaj 2018-08-01 This book will serve as a brief yet exhaustive guide to the role of oral microbes in health and disease. It will be useful to dental and medical students and to microbiologists.

**Periodontology and Periodontics**-Sigurd Peder Ramfjord 1989

**T Cell Hybridomas**-Michael J. Taussig 1985

**Molecular Medicine**- 1997

**Encyclopedia of Human Biology: In-Mu**-Renato Dulbecco 1997

**Mucosal Immunology**-Jiri Mestecky 2005-02-02 Mucosal immunology is so important since most infectious agents enter the body through the various mucous membranes, and many common infections take place in or on mucous membranes. Mucosal Immunology, now in its third edition, is the only comprehensive reference covering the basic science and clinical manifestations of mucosal immunology. This book contains new research data, exceptional illustrations, original theory, a new perspective and excellent organization. \* The most comprehensive text on mucosal immunology from internationally recognized experts in the field \* Includes exceptional color illustrations, new research data, original theory and information on all mucosal diseases \* Contains nine new chapters and an expanded appendix

**5th Annual Congress of the British Society for Immunology**-British Society for Immunology. Congress 1997

**Encyclopedia of Human Biology**-Renato Dulbecco 1997

**Dissertation Abstracts International**- 2006

**Immunological Aspects of Gastroenterology**-Y.R. Mahida 2001-05-31 Diseases of the gastrointestinal tract are common. There is increasing appreciation of the importance of the immune system in the pathogenesis of a number of these diseases. This book covers basic aspects of innate and adaptive immunity in the gastrointestinal tract, oral tolerance, and cellular and molecular mechanisms of acute and chronic inflammation. Specific disease covered include bacterial infections, human immunodeficiency virus (HIV) infection, coeliac disease, and inflammatory bowel disease. Other

topics include mucosal immunisation and intestinal transplantation immunology. The readership of this book includes clinicians, scientists, and students interested in the gastrointestinal tract.

**Molecular Microbiology and Immunobiology of Streptococcus Mutans ; Proceedings of an International Conference on "Cellular, Molecular, and Clinical Aspects of Streptococcus Mutans" Held in Birmingham, Alabama, USA, on September 18-20, 1985**-Shigeyuki Hamada 1986

**Pediatric Clinical Gastroenterology**-Claude C. Roy 1995 A Brandon Hill Title

**Bacterial Physiology**-Walid El-Sharoud 2007-12-07 The application of new molecular methodologies in the study of bacterial behavior and cell architecture has enabled new revolutionary insights and discoveries in these areas. This new text presents recent developments in bacterial physiology that are highly relevant to a wide range of readership including those interested in basic and applied knowledge. Its chapters are written by international scientific authorities at the forefront of the subject. The value of this recent knowledge in bacterial physiology is not only restricted to fundamental biology. It also extends to biotechnology and drug-discovery disciplines.

**The Molecular Pathology of Autoimmune Diseases**-Argyrios N Theofilopoulos 2002-12-06 Remarkable advances have been made in the pathogenesis of autoimmunity, such as with bone marrow transplantation,

which is becoming a powerful strategy in treating certain life-threatening diseases. The Molecular Pathology of Autoimmune Diseases is a concise and centralized resource for information on the topic, with a special focus on the molecular and genetic basis of these disorders. Dozens of international experts devote themselves to illuminating the reader in this volume, with discussions on the basic aspects of autoimmune processes to systemic and organ-specific diseases. This volume is an invaluable reference to students and professionals in immunology and related fields.

**Hormone Research**- 1994

**Immunology Guidebook**-Julius Cruse 2004-08-05 The Immunology Guidebook provides an easily accessible text-reference to the more up-to-date and difficult concepts in the complex science of immunology. It aims to demystify basic concepts and specialised molecular and cellular interactions. Its 18 chapters offer a logical and sequential presentation where much of the data is displayed in carefully designed tables. This book is intended for immunology students, researchers, practitioners and basic biomedical scientists. Tables provide a quick reference to 'difficult to find' immunology data A distillate of the latest information on immunogenetics of the human MHC associated with tissue transplantation Information boxes featurw related web resources

**New Scientist**- 2008