

Olivier Morteau

Oral Tolerance:

The Response of the Intestinal
Mucosa to Dietary Antigens



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Oral Tolerance Cellular And Molecular Basis Clinical Aspects And Therapeutic Potential

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Oral Tolerance Cellular And Molecular Basis Clinical Aspects And Therapeutic Potential:

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.

Oral Tolerance Olivier Morteau, 2010-12-01 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.

Journal of Gastroenterology, 2003 *Index Medicus*, 2004 Vols for 1963 include as pt 2 of the Jan issue. Medical subject headings

The Molecular Basis of Human Cancer William B. Coleman, Gregory J. Tsongalis, 2001-08-10 Internationally renowned basic and clinical scientists provide an account of our best current understanding of the genetics of cancer. These authoritative contributors describe in detail each of the known molecular mechanisms governing neoplastic transformation in the breast, prostate, lung, liver, colon and skin and in the leukemias and lymphomas. Their discussion illuminates both recent developments and established concepts in epidemiology, molecular techniques, oncogenesis and mutation mechanisms as well as the chemical, viral and physical mechanisms in cancer induction.

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Southeast Asia and still occurring in Mediterranean countries There is no human vaccine available to prevent and control the disease infection For the last 70 years the available chemotherapy has been constituted by first line pentavalent antimonials and second line drugs amphotericin B pentamidine paramomycin and miltefosine Its route of administration is difficult the treatment is long and its efficiency varies depending on the parasite species and clinical manifestations which results in the emergence of resistant cases Moreover they present high toxicity to patients and even some less toxic formulations available are still expensive for the poorest countries vulnerable populations This often leads to abandonment and failure of treatment The medical scientific community is facing difficulties to overcome these issues with new suitable therapies and the identification of new drug targets So it means that efforts to identify new strategies must continue

The immunology of cellular stress proteins Willem Van Eden,Ruurd Van Der Zee,Cristina Bonorino,2014-10-05 Stress proteins or heat shock proteins HSP are evolutionary conserved proteins present in every prokaryotic and eukaryotic cell Their main function is to protect cells and proteins from damage under stressful circumstances The latter circumstances do include the cell and protein damaging effects of inflammation The discovery of mycobacterial HSP60 being a critical antigen in the model of adjuvant arthritis has led to studies that showed the immuno dominance of microbial HSP60 and the potential of the microbial HSP induced repertoire of antibodies and T cells to cross recognize the self HSP homologues of stressed cells Since then the research in the immunology of stress proteins started to comprise a widening spectrum of topics with potential medical relevance Interestingly since stress proteins have their activities in both innate and adaptive immunity they are key elements in the cross roads between both arms of the immune system Stress proteins or HSP can be considered as functional biomarkers of inflammation They are up regulated locally during inflammation and interestingly they seem to function as targets for anti inflammatory regulatory T cells In experimental models of autoimmunity mainly arthritis administration of HSP peptides have been shown to suppress disease First clinical trials have shown the anti inflammatory nature of T cell responses to Hsp In type I diabetes and in rheumatoid arthritis parenteral and oral administration of Hsp peptides were shown to induce a bias in pro inflammatory T cells switching them in the direction of regulatory cytokine production IL4 IL5 and IL10 In addition a raised level of a marker of natural T regulatory cells the transcription factor FoxP3 was noted in the RA trial Other inflammatory diseases or diseases with inflammatory components which feature the immune imprint of the up regulated Hsp are atherosclerosis inflammatory bowel diseases multiple sclerosis and atopic diseases such atopic dermatitis and allergic asthma

Toxicology Research Projects Directory ,1976-02 An indexed directory of current research project abstracts in toxicology and related fields

Graduate Studies ,1993

The Metabolic and Molecular Basis of Acquired Disease: General mechanisms, Environmental aspects of disease, Acquired metabolic diseases ,1990

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