

### A- Molecular mimicry

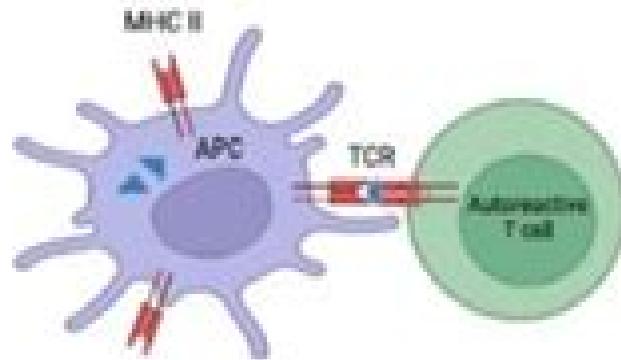
Self antigens



Virus



Viral antigens



1 Viruses carry antigens structurally similar to self antigens

2 Cross reactive response against self and non-self antigens

### C- Epitope spreading

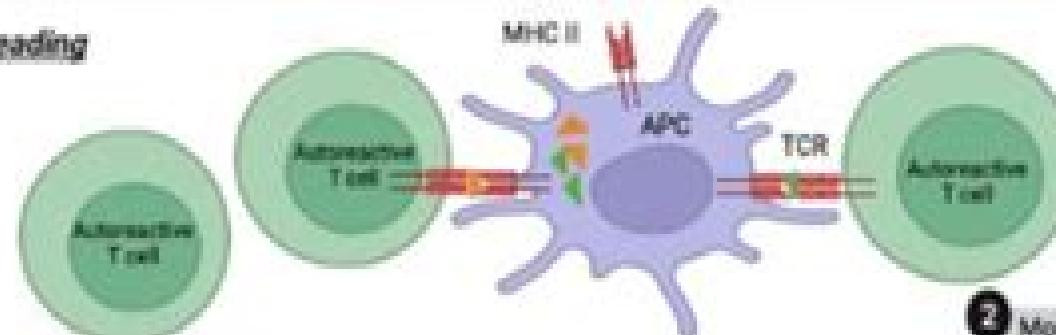
Self antigens



Virus



Cytokines



1 T-cell response spread to other autoreactive T cells



### B- Bystander activation

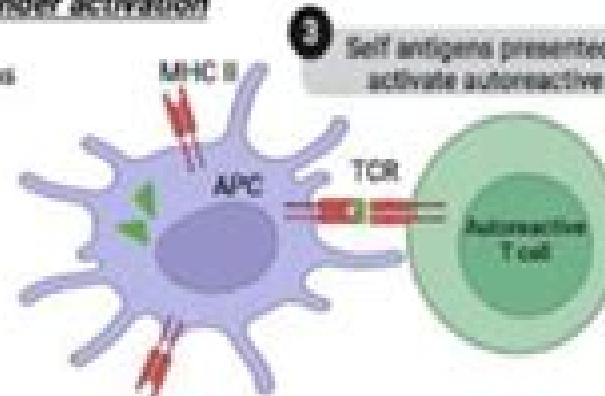
Self antigens



Virus



Cytokines



3 Self antigens presented on APC activate autoreactive T cells



3 Self antigens released from damaged tissue

1 Non-specific anti-viral response/ inflammation

3 Self antigens presented on APC activate autoreactive T cells

2 More tissue damage and release of new

1 Persistent viral infection

# Molecular Autoimmunity

**Moncef Zouali**

## **Molecular Autoimmunity:**

**Molecular Autoimmunity** Moncef Zouali,2005-07-27 2004 marks the 100th anniversary of the first description of the autoimmune disease paroxysmal cold hemoglobinuria a rare hemolytic disorder by Julius Donath and Karl Landsteiner After a century of research the list of autoimmune diseases has become impressive With a prevalence of approximately 5% of the world wide population these chronic debilitating conditions affect almost every major organ of the body and for reasons that remain unclear are much more prevalent in woman than in men Despite our rapidly expanding knowledge of the cellular and molecular pathways that govern a normal immune response deciphering the precise etiology of autoimmune diseases remains an important challenge Over the last few years our understanding of the pathogenesis of autoimmune diseases has improved rapidly leading to the emergence of elegant immunointervention strategies Molecular Autoimmunity illustrates how cutting edge research is continuing to advance our understanding of autoimmune disease mechanisms and identifies novel therapeutic targets that provide a hope for effective future treatments This volume contains a selected number of exciting advances in unraveling autoimmune reactions and the resulting new armory of experimental immunotherapies that may lead to new ways of controlling autoimmune reactions

[Autoantibodies and Autoimmunity](#) Kenneth Michael Pollard,2006-05-12

This is the first book to address all aspects of the biology of autoantibodies in a single volume including a discussion of immunology experimental models clinical aspects and the use of autoantibodies as probes in molecular and cellular biology The editor currently professor at the W M Keck Autoimmune Disease Center of The Scripps Research Institute has assembled an all star team of authors to report on the latest research technologies and applications Following an introductory chapter the book goes on to cover such topics as cellular mechanisms of autoantibody production clinical and diagnostic usefulness in human disease and animal models used to study the elicitation of autoantibodies The whole is rounded off with a look at future perspectives With its comprehensive coverage this volume will appeal not only to immunologists and clinicians but also to cell and molecular biologists

**Biomedical Index to PHS-supported Research** ,1987 [Biomedical Index to PHS-supported Research: pt. A. Subject access A-H](#) ,1994

[Molecular Mimicry](#) Michael B.A. Oldstone,2013-03-12

This volume focuses on the evidence for or against molecular mimicry as a cause of autoimmunity Contributions from recognized experts present their original findings and the final chapter reviews the overall perspective of molecular mimicry how to use its principles in clinical investigation and list the conceptual traits by which autoimmune disease can occur

**The Molecular Pathology of Autoimmune Diseases** Argyrios N Theofilopoulos,Constantin A. Bona,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 **Molecular Mimicry: Infection Inducing Autoimmune Disease** Michael B. A. Oldstone,2005-11-03 The conceptual basis for molecular mimicry was first defined in the early 1980s when monoclonal antibodies against viruses were also shown to react with non viral host protein in this case measles virus phosphoprotein cross reacted with host cell cytokeratin herpes simplex virus type 1 with host cell vimentin and vaccinia virus with host cell intermediate filaments Following this discovery others emerged again at the clonal level that T cell clones against proteins from a variety of infectious agents also reacted with host antigenic determinants The clonal distinction was imperative for the initial definition of mimicry At least 30 years prior to our initial description of molecular mimicry involving cross reactions between numerous microbes on the polyclonal antibody level streptococcus was believed to react with renal glomeruli heart and basal ganglia to account for the glomerulonephritis heart and valvular disease and chorea respectively However subsequent research showed that the nephritis was caused by immune complex deposits and the tissue damage they produced Later in 1990 the cross reactivity of streptococcal antigen with myocardial antigens on a clonal level was uncovered Hence for both historical reasons and mechanistic understanding it is best to provide evidence for cross reactivity at the clonal level to prove that molecular mimicry exists

The Quantal Theory of Immunity Kendall A. Smith,2010

This book explains how the immune system functions namely how individual cells of the immune system make the decision to respond or not to respond to foreign microbes and molecules and how the critical molecules function to trigger the cellular reactions in an all or none quantal manner To date there has not been a complete description of the immune system and its cells and molecules primarily because most of the information has accumulated only in the last 40 years and our understanding has been expanding rapidly only in the last 20 years It is now clear that the cells have evolved a way to count the number of foreign antigenic molecular hits and they only react when a critical number of events have accumulated Subsequently control over the reaction is transferred to a systemic lymphocytotropic hormone system that determines the tempo magnitude and duration of the immune reaction This book explains in detail how the immune system cells and molecules work for the first time With this understanding as a basis the pathogenesis of autoimmunity can now be understood as a mutational usurpation of the genes encoding molecules that participate in a sensitive feedback regulatory control of the immune reaction By comparison malignant transformation is understood as a mutational usurpation of the genes encoding the molecules that control the quantal decision to proliferate so that normal ligand receptor cell growth control is circumvented This molecular understanding of the immune system is especially important for the design of successful vaccines and also explains why vaccines fail

**Cytokines and Cytokine Receptors** Constantin A.

Bona,Jean-Pierre Revillard,2001-03-07 The field of cytokine research is expanding at a rapid pace Contributions from the major leading groups in the world on the structure and biological properties of cytokine and cytokine receptors as well as

integrated reviews on cytokines in various physiological and pathological conditions were presented in three issues of International Reviews of Immunology This collection of articles provided a unique source of information However important discoveries are emerging very rapidly and some of the reviews written in 1997 are already outdated In this book the editors assemble reviews that have been updated by their authors to include all the recent publications and unpublished data from the authors laboratories This volume should serve as an excellent reference source for all those concerned by the multiple faces of cytokines in basic research and in the clinic     *The Autoimmune Diseases* M. Eric Gershwin,George C.

Tsokos,2013-12-03 Since publication of the 4th Edition of The Autoimmune Diseases in 2006 the understanding of the immune mechanisms underlying autoimmunity and autoimmune disease has significantly deepened and broadened This fully revised 5th Edition incorporates new material and combines common themes underlying inductive and effector mechanisms and therapies that relate generally to the autoimmune disorders It discusses the biological basis of disease at genetic molecular cellular and epidemiologic levels and includes expanded coverage of autoinflammatory disease and autoimmune responses to tumors Gives a thorough and an important overview on the entire field framing individual disease chapters with information that compares and contrasts each disorder and therapy Provides thorough up to date information on specific diseases along with clinical applications in an easily found reference for clinicians and researchers interested in certain diseases Keeps readers abreast of current trends and emerging areas in the field Ensures that content is not only up to date but applicable and relevant     *The Molecular Biology of Autoimmune Disease* Andrew G. Demaine,J.-Paul Banga,Alan M.

McGregor,2013-06-29 Autoimmune diseases are common and often associated with considerable morbidity or in diseases such as IDDM myasthenia gravis and multiple sclerosis mortality In this volume experts of international stature in basic science and clinical medicine with a common interest in understanding the normal and aberrant immune response present their experiences It was their intention to further the understanding of potential clinical application of scientific observations and to help to comprehend the huge amount of results in autoimmunity research     *The molecular aspects of autoimmunity*

Nadir Farid,2012-12-02 The Molecular Aspects of Autoimmunity contains a selection of the papers presented at the first of a series of biannual meetings on molecular aspects of autoimmunity held in L Esterel Quebec Canada October 30 November 2 1988 The book contains 20 chapters and begins with a study of the expression of the Ly 1 gene and V gene families in autoantibodies This is followed by separate chapters on the structural characteristics of human IgM autoantibodies human IgV gene segments for autoantibodies and the genetic basis of anti DNA immune responses Subsequent chapters cover topics such as the epitopes from the immune response to the acetylcholine receptor AChR the specificities and idiotypes of anti histone H1 autoantibodies T cell tolerance and T cell antigen receptor TCR gene biology and the genomic composition and expressed repertoire of these genes in several autoimmune and normal mouse strains Also discussed are MHC Class II associations with autoimmune disorders such as type 1 diabetes rheumatoid arthritis and thyroid disease     *Molecular*

Mimicry, Microbes, and Autoimmunity Madeleine W. Cunningham, Robert S. Fujinami, 2000 A comprehensive review of molecular mimicry Presents the latest scientific developments in how molecular mimicry between infectious agents and host molecules can lead to autoimmunity Covers molecular mimicry and autoimmunity in the context of specific diseases Offers a better understanding of how microbes may lead to autoimmune diseases Reviews the most current thinking about microbial pathogens and how they trigger autoimmunity    Autoimmunity Andras Perl, 2008-02-01 Research is to see what everybody else has seen and to think what nobody else has thought Albert Szentgyrgyi Autoimmunity Methods and Protocols is intended to serve as a ready to use guide to establish and interrogate human and animal models of autoimmune diseases The first chapter Pathogenesis and Spectrum of Autoimmunity discusses major hypotheses driving this most tantalizing area of research since Paul Ehrlich proposed the concept of autoimmunity in 1900 Considering the great diversity and ever changing spectrum of autoimmunity it has not been possible to include models and experimental protocols for each known disorder Rather several chapters have been devoted to the most prevalent and complex diseases such as rheumatoid arthritis systemic lupus erythematosus insulin dependent diabetes mellitus and multiple sclerosis The chapters are contributed by laboratories actively using the models presented Each chapter contains an introductory section that discusses the relevance of the model for a particular disease and for autoimmunity in general Part I contains methods and protocols to assess immunological and biochemical pathways relevant for disease pathogenesis Chapters in this section focus on methods to identify susceptibility genes intercellular signaling via cytokines intracellular signaling through the T cell receptor and signal processing via protein kinases identification and enumeration of autoantigen specific T cells and autoantibodies and the dysregulation of apoptosis and its role in modification of self antigens Part II contains protocols to establish and assess inflammatory arthritis systemic lupus erythematosus myocarditis thyroiditis experimental autoimmune encephalomyelitis insulin dependent diabetes mellitus scleroderma uveitis and vitiligo

**Experimental Immunotoxicology** Ralph J. Smialowicz, Michael P. Holsapple, 1996 Immunotoxicology has emerged as a vital and expanding discipline over the past several years Although the field of human immunotoxicology is arguably still in its infancy a number of animal model systems have been well established and validated Experimental Immunotoxicology provides an update on the recent advances in the field as it relates to animals and provokes discussion on approaches to the evaluation of human immunotoxicology It is an important reference source for professionals in immunology and toxicology The book begins with an overview of the mammalian immune system and covers the important role played by animal host susceptibility models It also gives an update on immunotoxicology in sub human primates Vulnerability of bone marrow and the consequences of damage to immune function as well as chemical induced immunosuppression as a consequence of exposure to chemicals are covered Most of the chapters are organized to include a description of the profile of immunotoxicity mechanisms of immunotoxicity species comparisons and research needs

Endocrine and Organ Specific Autoimmunity George S. Eisenbarth, 1999 Organ specific autoimmune disorders as a group

are responsible for a major portion of all debilitating and at times life threatening chronic diseases Over the past decade more has been learned concerning the molecular pathogenesis of these disorders than during the past 100 years

*Diversification in Toxicology — Man and Environment* Jürg P. Seiler, Judith L. Autrup, Herman Autrup, 1997-11-27 This volume contains the main papers presented at the 1997 EUROTOX Congress in Denmark 24-28 June 1997 Diversification in toxicology is seen as the application of basic science to such diverse areas as man and his environment The pressing issues which have been dealt with not only include reproductive effects of environmental chemicals xenoestrogens but also receptor mediated toxic responses new frontiers in human and ecological toxicology chemoprevention of cancer and molecular approaches in toxicological research The practical and ethical facets of toxicology e.g. ecotoxicological risk assessment biomarkers of exposure complex chemical mixtures as well as animal welfare and the ethics of animal experimentation are also treated

Peterson's Guide to Graduate Programs in the Biological Sciences 1997 Peterson's, 1997-01-05 Graduate students depend on this series and ask for it by name Why For over 30 years it's been the only one stop source that supplies all of their information needs The new editions of this six volume set contain the most comprehensive information available on more than 1 500 colleges offering over 31 000 master's doctoral and professional degree programs in more than 350 disciplines New for 1997 Non degree granting research centers institutes and training programs that are part of a graduate degree program Five discipline specific volumes detail entrance and program requirements deadlines costs contacts and special options such as distance learning for each program if available Each Guide features The Graduate Adviser which discusses entrance exams financial aid accreditation and more The only source that covers nearly 4 000 programs in such areas as oncology conservation biology pharmacology and zoology

Harrison's Principles of Internal Medicine, Twenty-Second Edition (Vol. 1 & Vol. 2) Joseph Loscalzo, Anthony S. Fauci, Dennis L. Kasper, Stephen Hauser, Dan Longo, J. Larry Jameson, 2025-07-18 The acclaimed landmark guide to internal medicine updated to reflect the latest guidelines and recommendations The Voice of Clinical Reason For more than seven decades Harrison's Principles of Internal Medicine has provided healthcare professionals with the informational foundation needed to provide optimal patient care The world's leading authority on applied pathophysiology and clinical medicine this trusted resource has covered countless advances and developments across the full span of medicine Fully updated the new 22nd edition has been modified extensively in its structure and content and offers a standardized format for each disease chapter The authors and editors have curated and synthesized the vast amount of information that comprises general internal medicine and each of the major specialties into a highly readable and informative resource Harrison's is world renowned as the most authoritative source for Descriptions of disease mechanisms and how the clinician can apply that knowledge for the best patient care and optimal diagnosis and treatment of specific diseases Clear concise schemas that facilitate the generation of differential diagnoses to reason efficiently through complex real world clinical cases The physiologic and epidemiologic basis of signs and symptoms which

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Journal of Virology ,2005

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