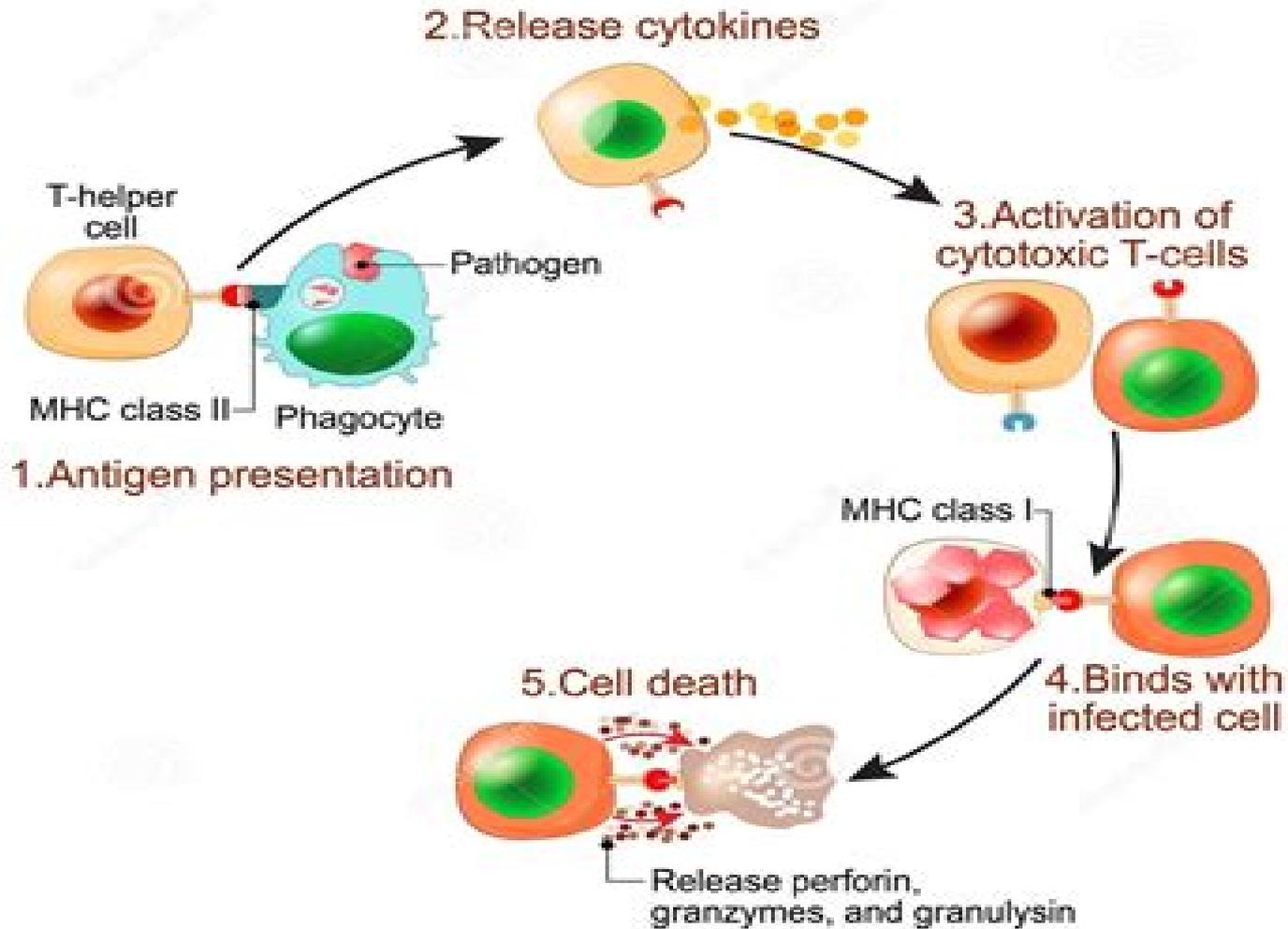


Cytotoxic T-cell



Cytotoxic Cells

Jonathan M. Austyn, Kathryn J. Wood



Cytotoxic Cells:

Cytotoxic Cells: Recognition, Effector Function, Generation, and Methods SITKOVSKY,HENKART,2012-12-06 Our motivation for putting together this book was the need for a single source reference that could be used as an introduction to cell mediated cytotoxicity for newcomers to this field such as students and fellows beginning work in our laboratories At present no such book is available and we felt that it would be useful as a teaching tool and as a way of conveying our enthusiasm about recent progress in the cytotoxicity field to our colleagues in allied areas It was with some hesitation that we approached our colleagues with the proposal for this book and we were pleased to find them very supportive of the idea and willing to participate We thought it important to broaden the scope of the book to include historical molecular cell biological and clinical aspects of cell mediated cytotoxicity To our knowledge this is the first book on cell mediated cytotoxicity with such a broad scope Historically studies on cellular cytotoxicity were part of cellular immunology from its origin One development of tremendous import was the advent of the ^{51}Cr assay which allowed this arm of the immune response to be measured easily and quantitatively Thus a readout of this effector pathway is available within a few hours other immune effector functions can take days or even longer to assay and the assays are often less quantitative

Cytotoxic Cells M. V. Sitkovskii,Pierre Henkart,2000 This volume synthesizes recent groundbreaking advances in our knowledge of the molecular mechanisms biological roles and medical applications of cytotoxic lymphocytes Leading investigators examine current concepts on the recognition of antigen by T cell receptors the molecules mediating target recognition by natural killer cells the intracellular signalling cascades triggered by these molecules and the effector molecules that damage target cells The contributors present new insights into the roles of cytotoxic lymphocytes in vivo in immune regulation autoimmunity antiviral resistance and tumor surveillance Several chapters explore potential medical applications of cytotoxic lymphocytes including vaccines tumor therapy and treatment of HIV infection

High-Dimensional Single Cell Analysis Harris G. Fienberg,Garry P. Nolan,2014-04-22 This volume highlights the most interesting biomedical and clinical applications of high dimensional flow and mass cytometry It reviews current practical approaches used to perform high dimensional experiments and addresses key bioinformatic techniques for the analysis of data sets involving dozens of parameters in millions of single cells Topics include single cell cancer biology studies of the human immunome exploration of immunological cell types such as CD8 T cells decipherment of signaling processes of cancer mass tag cellular barcoding analysis of protein interactions by proximity ligation assays Cytobank a platform for the analysis of cytometry data computational analysis of high dimensional flow cytometric data computational deconvolution approaches for the description of intracellular signaling dynamics and hyperspectral cytometry All 10 chapters of this book have been written by respected experts in their fields It is an invaluable reference book for both basic and clinical researchers

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 81 2x 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 BALT 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

Phylogenesis of Immune Functions Gregory W. Warr, Nicholas Cohen, 2024-12-20 This volume discusses recent advances in research regarding the evolution of specific and nonspecific defense responses in a taxonomically diverse array of species Topics regarding invertebrates include the protective mechanisms cellular and molecular employed by insects the protective roles of lectins and the self nonself discrimination revealed by tissue incompatibility reactions With vertebrates the evolution of the immunoglobulin related superfamily of recognition molecules including immunoglobulins and the major histocompatibility complex molecules is examined over several chapters Other topics reviewed include the evolution of nonimmunoglobulin mediators of defense e g cytokines and eicosanoids lymphocyte subpopulations including effects of ambient temperature on function and the phylogenetic emergence of natural killer cells Phylogenesis of Immune Functions provides invaluable information for evolutionary biologists as well as all immunologists and other researchers interested in discovering how inhabitants in our increasingly threatened biosphere protect themselves against environmental pathogens and toxins

Clinical Hematology Made Ridiculously Simple Stephen Goldberg, M.D., 2021-09-20 NEW RELEASE Hematology encompasses numerous diseases and it is easy to get lost in the details of a reference text This book focuses on seeing the overall clinical picture in a brief clear manner It offers a practical overview of the range of common hematologic disorders with their diagnoses and treatments The book is directed toward the medical nursing and PA student as well as the general practitioner who would like a brief overview of the key and practical clinical aspects of Hematology with understanding rather than rote memorization

Contemporary Topics in Immunobiology Noel Warner, 2012-12-06 In

this current volume of Contemporary Topics in Immunobiology we have chosen to continue with the multiple theme approach that was developed in Volumes 1 3 and 5 of this series Immunobiology still shows little sign of decreasing its active growth rate but rather is continuing to broaden its range of interests and applications particularly as new techniques and methods are adapted from other fields of medical research This present volume reflects both several of the more classical areas of immunology now addressed in the light of contemporary immunology and several newer directions that have been taken in other fields The general subject of T cell heterogeneity and functions of T cell subpopulations is addressed in Chapters 1 and 2 The potential role of genes of the major histocompatibility complex in controlling the immune functions of T lymphocytes still remains a major unresolved issue in immunogenetics and the current status of this problem is excellently reviewed by J F A P Miller The further elucidation of functional subpopulations of human T lymphocytes has been particularly hampered by the lack of available markers for characterizing and isolating such subpopulations A major step in this direction has been made by L Moretta M Ferrarini and M D Cooper who review their experience with Fc receptor bearing human T lymphocyte populations

Biology and Culture of Channel Catfish C.S. Tucker, J.A. Hargreaves, 2004-09-30 The history of channel catfish farming in the United States serves as a model for the development of pond based aquaculture industries worldwide Channel catfish farming is the largest and economically most important aquaculture industry in the United States In 2003 over 300 000 metric tons 662 million pounds of channel catfish were processed representing about half the total United States aquaculture production Demand for farm raised catfish is strong with record processing years in 2002 and 2003 In 22 chapters written by active scientists in the field **Biology and Culture of Channel Catfish** comprehensively synthesizes over 30 years of research on this American icon Throughout the book fundamental biological aspects of channel catfish are linked to practical culture techniques Topics include Latest information on reproductive physiology genetics and breeding Comprehensive treatment of catfish nutrition feeds and feeding practices Water quality management and pond dynamics In depth review of immunology in channel catfish Practical information on diseases and health management Techniques for commercial culture including innovative techniques such as raceways recirculating systems and partitioned aquaculture systems Catfish economics and marketing Exploration of environmental concerns including recommended Best Management Practices

Cumulated Index Medicus, 1984 *Diseases of the Kidney* Robert W. Schrier, Carl W. Gottschalk, 1988

The Journal of Immunology, 1917 **California. Court of Appeal (2nd Appellate District). Records and Briefs** California (State)., **Principles of Cellular and Molecular Immunology** Jonathan M. Austyn, Kathryn J. Wood, 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 *Journal of Pathology and Bacteriology* ,1905 *Proceedings of the Society for Experimental Biology and Medicine* Society for Experimental Biology and Medicine (New York, N.Y.),1903 List of members in each volume **Immunogenetics** Gabriel Stavros Panayi,Chella S. David,1984 *Federation Proceedings* Federation of American Societies for Experimental Biology,1962 Journal of the American Medical Association ,1905 Natural and Induced Cell-mediated Cytotoxicity Gert Riethmüller,Peter Wernet,Gustavo Cudkowicz,1979 Natural and Induced Cell Mediated Cytotoxicity **Journal of the National Cancer Institute** ,1989 Summaries of papers contained in the journal accompany each issue 19

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