

The Antibody Molecule

Axel Hecht Johansen



The Antibody Molecule:

The Antibody Molecule Alfred Nisonoff, John E. Hopper, Susan B. Spring, 2014-06-28 The Antibody Molecule reviews the literature leading to current knowledge of the structure of immunoglobulins The book begins by outlining some of the basic structural characteristics of immunoglobulins without citing the references on which the information is based Separate chapters follow covering the chemical nature of the active site of an antibody molecule and mechanisms of interaction with hapten the general structural features and properties of the various classes of human immunoglobulin and amino acid sequences of human and mouse L chains and of human and rabbit H chains Subsequent chapters deal with the evolution of the immunoglobulin classes special properties of mouse guinea pig rabbit and horse immunoglobulins idiotypic specificities of immunoglobulins and the genetic control of antibodies This book is meant for immunologists who have not personally observed the development of this exciting period in the history of immunology It will also provide useful supplemental reading for the serious student or investigator who wishes to become familiar with the nature of the antibody molecule its genetic control and mode of action

The Antibody Molecule Anthony R. Rees, 2015 The Antibody Molecule follows the extraordinary journey of the medics and scientists who shaped the course of medical advances in the field of immunology One of the oldest of the medical sciences immunology has a history that has seen chemists physicists and biologists alike seeking to unravel the most complex system in the human body outside the brain This book charts its intriguing history from the genetic basis of antibody diversity through the understanding of the mechanism by which the immune system's first line of defence works to breakthroughs in crystallography and the exploitation of immunoglobulins as therapeutic platforms to treat cancer inflammation and allergy Tracing the developments in immunology in chronological order Professor Antony R. Rees presents the historical contexts of the periods in rich detail bringing them to life with quotes and illustrations This fascinating book examines the literature of the time turning points and controversies A must read for immunologists and life scientists as well as historians of science and medicine

The Immunoglobulins Roald Nezlin, 1998-05-06 This book provides comprehensive up to date information on the structure and function of immunoglobulins It describes the basic features of these molecules which assists the reader in understanding how they function as an integral part of the immune system The Immunoglobulins describes the localization and structure of different binding sites of immunoglobulin molecules including the antigen binding site on the basis of latest x ray crystallography studies It discusses recently developed biotechnological methods that allow scientists to obtain fully active antibody molecules in vitro even without immunization and to construct new variants of immunoglobulins and their fragments by fusing with various other active molecules A survey of recent knowledge on immunoglobulin binding molecules other than antigens and on flexibility of immunoglobulin molecules concludes the discussion of functional aspects of the problem Describes recent reviews on the structure and function of immunoglobulin molecules of various species Summarizes in detail recent findings on the fine structure of the antigen

combining site Presents comparative data on the antigen recognizing sites of other molecules such as MHC proteins and T cell receptors Summarizes growing data on immunoglobulin binding sites responsible for the reaction of immunoglobulins with molecules other than antigens Explores the rapid advance of recent biotechnological methods used for the construction of antibody molecules and their fragments with new properties Presents extensive references and is lavishly illustrated

Central Veterinary Conference Proceedings ,1997 **Chemical Pathology** Harry Gideon Wells,1925 Serum
Diagnosis by Complement-fixation John Albert Kolmer,1928 The Journal of Immunology ,1924 **Federation**
Proceedings Federation of American Societies for Experimental Biology,1962 **Brunner and Suddarth's Textbook of**
Medical-surgical Nursing Suzanne C. O'Connell Smeltzer,Brenda G. Bare,1992 These transparencies accompany Brunner
and Suddarth s Textbook of Medical Surgical Nursing 8th edition ISBN 0 397 5573 1 British Medical Journal ,1911
Pamphlets on Biology ,1894 **Dissertations, 1897-1945** Københavns universitet,1923 Classification of the Strains
Belonging to the Typhoid- Paratyphoid Group of Bacteria Axel Hecht Johansen,1923 **Special Report Series** ,1934
The Lancet ,1915 The Antibody Molecule Anthony R. Rees,2015 The Antibody Molecule is an illustrated review of
the remarkable developments within immunology from the discovery of the antibody molecule to its exploitation in medicine
and the scientists and pioneers who were involved This engaging and authoritative history will appeal to a wide audience
Anthony's Textbook of Anatomy and Physiology Gary A. Thibodeau,1990 **Molecular Architecture and the**
Processes of Life Linus Pauling,1949 **Essential Concepts in Immunology** Irving L. Weissman,Leroy E. Hood,William
Barry Wood,1978 **Immunocytochemistry** Ludwig A. Sternberger,1974

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The Antibody Molecule Introduction

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