

Cellular And Molecular Immunology With Student Consult Online Access 6e Cellular Molecular Immunology Abbas

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There are many unanswered questions regarding the molecular nature of antibodies, components of complement, and other substances which participate in the immune response. The list of substances which need to be analyzed chemically is increasing. Plasma cell products, of course, have long been of great interest because the most prevalent ones are immunoglobulins. Other cell types, however, are the source of the broad spectrum of additional substances which classically fall into the sanctum of the molecular immunologist. It is these substances, and especially those more recently discovered, which are responsible for the broadening investigative interests of immunologists. In this volume we have provided you with descriptions of research being done with immunoglobulins and with complement. Additionally, we have included two reports that deal with molecules which are among the more recent acquisitions of the molecular immunologist. The components of complement are known to react in a cascading manner which results in the lysis of cellular antigens. The first step in the classical pathway requires the activation of C1 by the antibody-antigen aggregates. This volume of Contemporary Topics in Molecular Immunology begins with the report of Reid and Porter which describes their investigation of the mechanism of activation of C1. Their descriptions of C1q and of the reaction of C1 with immunoglobulins are especially intriguing. It is clearly apparent from their report that activation of the components of complement is a complex phenomenon.

This work focuses on the understanding of IL-12, including its production, receptor interactions, signal transduction, interactions with other cytokines, its use as a therapy for AIDS and cancer, and its role in promoting an effective cellular response to microbial pathogens.

The 2nd edition of this popular text emphasizes the fundamental concepts and principles of human immunology that students need to know, without overwhelming them with extraneous material. It leads the reader to a firm understanding of basic principles, using full-color illustrations; short, easy-to-read chapters; color tables that summarize key information clinical cases; and much more—all in a conveniently sized volume that's easy to carry. The New Edition has been thoroughly updated to reflect the many advances that are expanding our understanding of the field. The smart way to

study! Elsevier titles with STUDENT CONSULT will help you master difficult concepts and study more efficiently in print and online! Perform rapid searches. Integrate bonus content from other disciplines. Download text to your handheld device. And a lot more. Each STUDENT CONSULT title comes with full text online, a unique image library, case studies, USMLE style questions, and online note-taking to enhance your learning experience. Your purchase of this book entitles you to access www.studentconsult.com at no extra charge. This innovative web site offers you... Access to the complete text and illustrations of this book. Integration links to bonus content in other STUDENT CONSULT titles. Content clipping for your handheld. An interactive community center with a wealth of additional resources. The more STUDENT CONSULT titles you buy, the more resources you can access online! Look for the STUDENT CONSULT logo on your favorite Elsevier textbooks!

The Electronic Image Collection (EIC) Format is a browser-based system that allows the user to view the images as a thumbnail and then export it to a PowerPoint presentation in full size. The figure number accompanies each image in the EIC from the book.

This reference text is a must have for any current or future clinicians or students of microbiology. It is concisely organized to provide vital information on many of the microbes one will regularly encounter and the most efficacious ways of addressing associated infections. Discussion of antimicrobial resistance mechanisms and measures to combat them are also one of the key features of this text. Whether you desire to utilize this book at the bedside for prompt treatment decisions or as a reference manual to be used at your leisure, you will find it to be a valuable addition to your library. Popular for its highly visual, straightforward approach, Cellular and Molecular Immunology delivers an accessible yet thorough understanding of this active and fast-changing field. Drs. Abul K. Abbas, Andrew H. Lichtman, and Shiv Pillai present key updates in this new edition to cover the latest developments in antigen receptors and signal transduction in immune cells, mucosal and skin immunity, cytokines, leukocyte-endothelial interaction, and more. With additional online features, this is an ideal resource for medical, graduate and undergraduate students of immunology who need a clear, introductory text for immunology courses. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Develop a thorough, clinically relevant understanding of immunology through a clear overview of immunology with a distinct focus on the management of human disease. Visualize immunologic processes more effectively. Meticulously developed and updated illustrations, 3-dimensional art, and all-new animations provide a detailed, visual description of the key immunologic and molecular processes. Grasp the details of experimental observations that form the basis for the science of immunology at the molecular, cellular, and whole-organism levels and draw the appropriate conclusions. Find information more quickly and easily through an organized chapter structure and a

more logical flow of material. Glean all essential, up-to-date, need-to-know information about immunology and molecular biology through extensive updates that cover cytokines, innate immunity, leukocyte-endothelial interactions, signaling, costimulation, and more. Benefit from numerous new figures and tables that facilitate easier retention of the material; quick summaries of each chapter; and nearly 400 illustrations that clarify key concepts.

Viruses interact with host cells in ways that uniquely reveal a great deal about general aspects of molecular and cellular structure and function. Molecular and Cellular Biology of Viruses leads students on an exploration of viruses by supporting engaging and interactive learning. All the major classes of viruses are covered, with separate chapters for their replication and expression strategies, and chapters for mechanisms such as attachment that are independent of the virus genome type. Specific cases drawn from primary literature foster student engagement. End-of-chapter questions focus on analysis and interpretation with answers being given on the website (half for students, all for instructors). Examples come from the most-studied and medically important viruses such as HIV, influenza, and poliovirus. Plant viruses and bacteriophages are also included. There are chapters on the overall effect of viral infection on the host cell. Coverage of the immune system is focused on the interplay between host defenses and viruses, with a separate chapter on medical applications such as anti-viral drugs and vaccine development. The final chapter is on virus diversity and evolution, incorporating contemporary insights from metagenomic research. Key selling feature: Readable but rigorous coverage of the molecular and cellular biology of viruses Molecular mechanisms of all major groups, including plant viruses and bacteriophages, illustrated by example Host-pathogen interactions at the cellular and molecular level emphasized throughout Medical implications and consequences included Quality illustrations available to instructors Extensive questions and answers for each chapter

How the Immune System Works has helped thousands of students understand what's in their big, thick, immunology textbooks. In his book, Dr. Sompayrac cuts through the jargon and details to reveal, in simple language, the essence of this complex subject. In fifteen easy-to-read chapters, featuring the humorous style and engaging analogies developed by Dr. Sompayrac, How the Immune System Works explains how the immune system players work together to protect us from disease – and, most importantly, why they do it this way. Rigorously updated for this fifth edition, How the Immune System Works includes the latest information on subjects such as vaccines, the immunology of AIDS, and cancer. A highlight of this edition is a new chapter on the intestinal immune system – currently one of the hottest topics in immunology.

Whether you are completely new to immunology, or require a refresher, How the Immune System Works will provide you with a clear and engaging overview of this fascinating subject. But don't take our word for it! Read what students have been saying about this classic book: "What an exceptional book! It's clear you are in the hands of an expert." "Possibly the Best Small Text of All Time!" "This is a FUN book, and Lauren Sompayrac does a fantastic job of explaining the immune system using words that normal people can understand." "Hands down the best immunology book I have read... a very enjoyable read." "This is simply one of the best medical textbooks that I have ever read. Clear diagrams coupled with highly readable text make this whole subject easily understandable and engaging." Now with a brand new website at www.wiley.com/go/sompayrac featuring Powerpoint files of the images from the book

This updated edition continues to provide a straightforward and concise approach to the subject. It focuses on the experimental observations that underlie the science of immunology at the molecular, cellular and whole organism level, and explores the conclusions that can be drawn from those observations.

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This work is the first book-length publication on the topic of insect immunology since 1991, complementing earlier works by offering a fresh perspective on current research. Interactions of host immune systems with both parasites and pathogens are presented in detail, as well as the genomics and proteomics, approaches which have been lacking in other publications. Beckage provides comprehensive coverage of topics important to medical researchers, including *Drosophila* as a model for studying cellular and humoral immune mechanisms, biochemical mediators of immunity, and insect blood cells and their functions. Encompasses the most important topics of insect immunology including mechanisms, genes, proteins, evolution and phylogeny Provides comprehensive coverage of topics important to medical researchers including *Drosophila* as a model for studying cellular and humoral immune mechanisms, biochemical mediators of immunity, and insect blood cells and their functions Most up-to-date information published with contributions from international leaders in the field

Immunology: A Short Course, 7th Edition introduces all the critical topics of modern immunology in a clear and succinct yet comprehensive fashion. The authors offer uniquely-balanced coverage of classical and contemporary approaches and basic and clinical aspects. The strength of *Immunology: A Short Course* is in providing a complete review of modern immunology without the burden of excessive data or theoretical discussions. Each chapter is divided into short, self-contained units that address key topics, illustrated by uniformly drawn, full-color illustrations and photographs. This new edition of *Immunology: A Short Course*:

- Has been fully revised and updated, with a brand new art program to help reinforce learning
- Includes a new chapter on Innate Immunity to reflect the growth in knowledge in this area
- Highlights important therapeutic successes resulting from targeted antibody therapies
- Includes end of chapter summaries and review questions, a companion website at www.wileyimmunology.com/coico featuring interactive flashcards, USMLE-style interactive MCQs, figures as PowerPoint slides, and case-based material to help understand clinical applications

Netter's Advanced Head & Neck Anatomy Flash Cards are the perfect portable study tool for quizzing yourself on key anatomic structures and clinical conditions of the head and neck. They accentuate the clinically relevant anatomy through beautiful Netter illustrations and new artwork in the Netter tradition, making for a fast and fun review at any stage of your healthcare career. Cards are cross-referenced to the parent text, *Netter's Head and Neck Anatomy for Dentistry, 3rd Edition*, and include much of the new art from the textbook. Beautiful, well-known Netter illustrations accentuate the clinically relevant anatomy. Includes additional Imaging, New Art, and Clinical Correlate cards. Perfect for quick, portable study for head and neck and dental anatomy courses. Allow you to quiz yourself on key anatomy terms and test your knowledge of classic presentations of disease.

The Molecular Immunology of Neurological Diseases provides a comprehensive review of current updates in molecular immunogenetics of different neurological diseases. Readers will learn about the role of immune cells and their modulation strategies to help in the development of therapeutic approaches for both acute and chronic neurodegenerative disorders. There is no other book available on the topic. It has long been thought that the brain is an immune-privilege organ with very limited immune response. However recent studies have made clear that both systemic 'brain' and peripheral 'blood' immune cell responses play key roles in determining brain pathology in neurodegenerative disorders. This book summarizes the role of immune cell activation in the central nervous system microenvironment in acute and chronic neurodegenerative disorders. In addition, it discusses the key role of immune cells and their modulation strategies for the development of current therapeutic approaches. Discusses the molecular immunogenetics of different neurological diseases Covers strategies for the development of therapeutic approaches Encompasses both acute and chronic neurogenerative disorders Describes the molecular pathogenesis of viral genes in various diseases Features chapters on migraine, muscular dystrophy and cancer

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Immunology is the science of immune systems. Some widely studied aspects of this field include immune deficiency, functioning of the immune system, transplant rejection, etc. The nature of the components of the immune system is mainly cellular. Immunology can be divided into classical immunology, developmental immunology, cancer immunology, theoretical immunology and reproductive immunology. This textbook is a complete source of knowledge on the present status of this important field. For someone with an interest and eye for detail, this book covers the most significant topics in the field of immunology.

Well-written, readable, and superbly illustrated, Cellular and Molecular Immunology, 10th Edition, continues the tradition of excellence established through multiple editions of this bestselling text. Offering an unparalleled introduction to this complex field, it retains a practical, clinical focus while updating and revising all content to ensure clarity and comprehension, bringing readers fully up to date with new and emerging information in this challenging area. It's an ideal resource for medical, graduate, and undergraduate students, as well as a trusted reference for physicians and scientists. Highlights the implications of immunologic science for the management of human disease, emphasizing clinical relevance throughout. Employs a highly accessible writing style that makes difficult concepts easier to understand, and provides clear implications of immunologic science to the management of human disease and clinical practice. Features updates from cover to cover, including new information on intracellular sensors of innate immunity, therapeutic use of monoclonal antibodies, regulation of migration events during T cell-B cell interactions, regulatory and transcriptional events in germinal center formation, immunology of infectious diseases including coronaviruses, human immunodeficiency disorders, and immunology of HIV. Provides a highly visual, full-color description of the key immunologic and molecular processes with a fully updated, comprehensive, and consistent art program, including many new and extensively revised illustrations. Helps readers grasp the details of experimental observations that form the basis for the science of immunology at the molecular, cellular, and whole-organism levels and draw the appropriate conclusions. Includes summary boxes that assist with rapid review and mastery of key material. Evolve Instructor site with an image and test bank is available to instructors through their Elsevier sales rep or via request at <https://evolve.elsevier.com>.

Meticulously reviewed and updated for today's medical students, Basic Immunology, 6th Edition, is a concise text expertly written by the same distinguished author team as the best-selling, comprehensive text, Cellular and Molecular Immunology. This focused, easy-to-understand volume uses full-color illustrations and clinical images, useful tables, and practical features such as Summary Point boxes, end-of-chapter review questions, glossary terms, and clinical cases—all designed to help students master this complex topic in the most efficient, effective manner possible. Emphasizes clinical

aspects of immunology, including disease pathogenesis, the development of novel therapies based on basic science, and an appendix of clinical cases for real-world application. Provides top-notch instruction from experienced teachers, course directors, and lecturers led by well-known editor and author Dr. Abul Abbas. Features a highly readable writing style and practical organization, now with fully revised content and updated images to reflect recent important advances in today's understanding of the immune system. Presents information in a format and style that maximizes usefulness to students and teachers studying medicine, allied health fields, and biology. Contains numerous features designed to help students understand key immunologic concepts: high-quality illustrations, practical tables, chapter outlines, bolded key points, and focus questions in every chapter for self-assessment and review. Evolve Instructor site with a downloadable image bank is available to instructors through their Elsevier sales rep or via request at: <https://evolve.elsevier.com>

This text continues to provide an approach to the subject. It focuses on the experimental observations that underlie the science of immunology at the molecular, cellular, and whole organism level - and explores the conclusions that can be drawn from those observations.

This book is an intellectual history of the major theoretical problem in immunology and its resolution in the post-World War II period. In recent years immunology has been one of the most exciting--and successful--fields of biomedical research; this book provides essential background for understanding the conceptual conflicts occurring in the field. This series was originally entitled Contemporary Topics in Immunochemistry, and Volume 1 bearing that name was published. Upon its editorial review and while charting the development of future volumes, the editors began to sense that the word "Immunochemistry" was somewhat restrictive according to its present interpretation. Accompanying the expansion of knowledge in immuno biology is a demand for explanations in molecular terms. Since the intent of the series is to focus attention on research at the molecular level in any aspect of immunology, the editors and publisher felt the term "Immunochemistry" should be replaced with "Molecular Immunology." Thus, the series now bears a revised appellation, Contemporary Topics in Molecular Immunology. The editors feel this more accurately reflects the intended breath of the series. An apology is offered to writers, librarians, and other catalogers for the inconvenience this change will cause. F. P. Inman General Editor Athens, Georgia March, 1973 vii Preface The earliest explorers into immunology were at once confronted by myriad molecular riddles which became increasingly complex as immunochemical techniques resolved one question only to raise scores of others. Even as our knowledge of cellular immunology was growing remarkably fast, during the past two decades exciting experiments delineated the molecular structure of immuno globulins. These joint advances not only shaped the Gestalt of present-day immunology, but paved the way for an incisive molecular approach to the challenges of research.

Cellular and Molecular Immunology has been a resounding success through four previous editions. Readers worldwide have appreciated its concise, straightforward, and lucidly illustrated approach. This best-selling book clearly explains the experimental observations that form the basis for the science of immunology at the molecular, cellular, and whole organism levels -- and the conclusions that can be drawn from those observations. It highlights the implications of immunologic science for the management of human disease, emphasizing the clinical relevance of the material. The result is an accessible, engaging, and current introduction to this essential subject. The authors have meticulously honed the text to incorporate this wealth of new material without increasing the book's length. Thus, it remains the same compact, affordable resource that readers have always enjoyed!

THE authoritative guide for clinical laboratory immunology For over 40 years the Manual of Molecular and Clinical Laboratory Immunology has served as the premier guide for the clinical immunology laboratory. From basic serology testing to the present wide range of molecular analyses, the Manual has reflected the exponential growth in the field of immunology over the past decades. This eighth edition reflects the latest advances and developments in the diagnosis and treatment of patients with infectious and immune-mediated disorders. The Manual features detailed descriptions of general and specific methodologies, placing special focus on the interpretation of laboratory findings, and covers the immunology of infectious diseases, including specific pathogens, as well as the full range of autoimmune and immunodeficiency diseases, cancer, and transplantation. Written to guide the laboratory director, the Manual will also appeal to other laboratory scientists, especially those working in clinical immunology laboratories, and pathologists. It is also a useful reference for physicians, mid-level providers, medical students, and allied health students with an interest in the role that immunology plays in the clinical laboratory.

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.

The top required and recommended immunology text worldwide, Cellular and Molecular Immunology by Drs. Abul K. Abbas, Andrew H. H. Lichtman, and Shiv Pillai, is a clear, well-written, and superbly illustrated introduction to the field. The 9th Edition retains a practical, clinical focus while updating and revising all content to ensure clarity and comprehension, bringing readers fully up to date with new and emerging information in this challenging area. Highlights the implications of immunologic science for the management of human disease, emphasizing clinical relevance throughout. Provides a highly visual, full-color description of the key immunologic and molecular processes with a fully updated, comprehensive, and consistent art program. Helps readers grasp the details of experimental observations that form the basis for the science of immunology at the molecular, cellular, and whole-organism levels and draw the appropriate conclusions. Includes summary boxes that assist with rapid review and mastery of key material. Features updates from cover to cover, including tumor immunity (tumor antigens,

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cancer immunotherapy), immune checkpoints, cytosolic sensors for DNA, non-canonical inflammasomes, prionization as a signaling mechanism, monogenic defects in immunity, and more.

This case study is about a 29-year-old professional oboe player who was first diagnosed for optic neuritis and then for multiple sclerosis (MS). MS is an example of a T-cell mediated autoimmune disease, wherein there is an autoimmune attack on the integrity of the central nervous system.

Tumor Immunology and Immunotherapy - Cellular Methods Part B, Volume 632, the latest release in the Methods in Enzymology series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. Topics covered include Quantitation of calreticulin exposure associated with immunogenic cell death, Side-by-side comparisons of flow cytometry and immunohistochemistry for detection of calreticulin exposure in the course of immunogenic cell death, Quantitative determination of phagocytosis by bone marrow-derived dendritic cells via imaging flow cytometry, Cytofluorometric assessment of dendritic cell-mediated uptake of cancer cell apoptotic bodies, Methods to assess DC-dependent priming of T cell responses by dying cells, and more. Contains content written by authorities in the field Provides a comprehensive view on the topics covered Includes a high level of detail

A straightforward introduction to Immunology, which helps students focus on the key concepts which explain why the immune system functions as it does - finding a path through the complexity and jargon which can often be daunting for students.

Molecular Biology of B Cells, Second Edition is a comprehensive reference to how B cells are generated, selected, activated and engaged in antibody production. All of these developmental and stimulatory processes are described in molecular, immunological, and genetic terms to give a clear understanding of complex phenotypes. Molecular Biology of B Cells, Second Edition offers an integrated view of all aspects of B cells to produce a normal immune response as a constant, and the molecular basis of numerous diseases due to B cell abnormality. The new edition continues its success with updated research on microRNAs in B cell development and immunity, new developments in understanding lymphoma biology, and therapeutic targeting of B cells for clinical application. With updated research and continued comprehensive coverage of all aspects of B cell biology, Molecular Biology of B Cells, Second Edition is the definitive resource, vital for researchers across molecular biology, immunology and genetics. Covers signaling mechanisms regulating B cell differentiation Provides information on the development of therapeutics using monoclonal antibodies and clinical application of Ab Contains studies on B cell tumors from various stages of B lymphocytes Offers an integrated view of all aspects of B cells to produce a normal immune response

Molecular Biology and Immunology of Allergens explores the characteristics of natural allergens and allergens produced by recombinant DNA techniques. The book covers important inhalant allergens such as pollen, mites, molds, and pet dander, as well as insect venoms and Chironomid hemoglobin allergens. Biological functions of allergens; the structural definition of allergens by NMR, crystallography, and computer modeling; and the production of recombinant allergens are discussed. Special attention is given to the search for the most effective expression systems in prokaryotic and eukaryotic organisms and the purification of recombinant allergens as fusion and non-fusion proteins. Other topics addressed include the production of allergen-specific T cell clones, the discovery of T cell epitopes by stimulation with overlapping peptides, and methods to induce T cell anergy by tolerogenic allergen-derived peptides. Molecular Biology

and Immunology of Allergens will be an excellent reference for all researchers and clinicians in allergology, immunology, molecular biology, allergen extracting, and immunotherapy.

"Lymphocyte Development" presents an extremely up-to-date account of molecular processes involved in the development of lymphocytes. This well written book is based on a graduate course taught by the author. Topics include the selection processes involved in lymphocyte maturation, immune receptor gene rearrangement, signaling pathways involved in cell cycle progression and apoptosis, and the transcriptional regulation of lymphoid ontogeny. The book also covers T cell development and differentiation of helper and cytotoxic T cells as well as the development of Natural Killer lymphocytes. The book finishes with an account of the molecular basis of immunodeficiency syndromes. It will interest researchers in immunology and it will be useful as a supplementary text for a graduate level immunology course.

Cellular and Molecular Immunology Elsevier srl

Tumor Immunology and Immunotherapy – Molecular Methods, Volume 629, the latest release in the Methods in Enzymology series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. Chapters in this release include Droplet digital PCR for measuring circulating tumor-derived DNA, Detection and quantification of cytosolic DNA, Methods to detect endogenous dsRNA induction and recognition, Quantification of eIF2alpha phosphorylation during immunogenic cell death, Assessment of annexin A1 release during immunogenic cell death, Luciferase-assisted detection of extracellular ATP in the course of ICD, The P2X7 receptor: structure and function, and much more. Contains the authority of authors who are leaders in their field Provides a comprehensive source on new methods and research in enzymology

Immunology is a branch of biology that covers the study of immune systems in all organisms. Cellular immunology is the study of the cells and molecules of an organism's immune system. The field involves studying how those different cells and molecules work together to provide a defense against different types of pathogens. To better understand cellular immunology, researchers study both healthy immune systems and those that are actively fighting off pathogens, comparing the differences and similarities of how the immune system's cellular physiology operates. Molecular immunology is a subfield of immunology that aims to examine immune processes at a molecular level. The immune system is the bodily system that responds to foreign entities, such as bacteria or other infectious agents in the body. The immune response that such a foreign entity triggers tends to be highly specific. The body produces antibodies that are specifically designed to target a particular antigen, or foreign body that triggers an immune response, just as a single lock tends to be matched to a single key. The field of molecular immunology exists to examine this and other aspects of immune response that are controlled at a molecular level. Immunology is a fast evolving subject, and attempt has been

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made in this work to keep it as much up-to-date as possible according to the requirement of the students and researchers in the field. This book reviews the principles of immunology and provides basic concepts of it by extracting the important information on immunology and presents it in a concise, uncluttered fashion to prepare students for their courses.

This book covers a scientific history of the discoveries in immunology of the past 60-years, i.e. what was discovered, who made the advances and how they accomplished them, and why others did not. All molecular advances occurred in the last 60 years, and no one has described them.

Advances in Immunology, Volume 150, the latest release in a long-established and highly respected publication, presents current developments and comprehensive reviews in immunology. Presents current developments and comprehensive reviews in immunology Provides the latest in a longstanding and respected serial on the subject matter Focuses on recent advances in the advancing area of the mechanisms involved in the evolution of HIV-1 Neutralizing Antibodies

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