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# Janeway's Immunobiology (Immunobiology: The Immune System (Janeway))



## Synopsis

Janeway's Immunobiology is a textbook that introduces the immune system in all its aspects to undergraduates, and also provides a treatment of the subject that is comprehensive enough to be useful to graduate students interested in research, and to medical students focused on clinical applications. The Eighth Edition has been thoroughly revised and updated and is available in both print and e-book formats. Janeway's Immunobiology continues to set the standard for currency and authority with its clear writing style and organization, uniform art program, and scientific accuracy. It presents a consistent point of view throughout—that of the host's interaction with an environment containing many species of potentially harmful microorganisms. The full-color art program is conceptually coherent and illustrates the processes and mechanisms underlying the concepts in the text. The 16 chapters in this readable, accessible textbook are organized and presented in such a way as to help deliver a complete one-semester immunology course, beginning with innate immunity, then moving to adaptive immunity, and ending with applied clinical immunology. Discussion questions are provided at the end of Chapters 2 to 16. These questions can be used for review, or as the basis for discussion in class or in informal study groups. Summaries conclude each section and each chapter. As in previous editions, a caduceus icon in the margins indicates topics which are correlated to Case Studies in Immunology, Sixth Edition by Geha and Notarangelo. New in the Eighth Edition Innate immunity has been updated and expanded and is now presented in two separate chapters (Chapters 2 and 3), as well as being further emphasized in the rest of the textbook. Chapter 2 covers antimicrobial peptides and the complement system, and Chapter 3 deals with cellular innate receptors and cell-mediated innate immunity (e.g. TLRs, phagocytosis, NK cells, interferon production, innate-like lymphocytes). The section on complement has been reworked and reconceived—explaining the lectin pathway first—making it easier to teach by placing it into the context of innate recognition. Evolution is now incorporated throughout the text, helping students see similar strategies used by different organisms. The text and figures of Chapter 7 Signaling Through Immune System Receptors have been revised to present a cohesive synthesis of signaling for immunology, focusing on improved illustration of antigen recognition signaling and lymphocyte activation. Signaling through other receptors is dealt with wherever appropriate throughout the book. Updated chapter on B-cell immune responses (Chapter 10), especially on trafficking of B cells in peripheral lymphoid organs (e.g. lymph nodes) and the locations at which they encounter antigen. Coverage of mucosal immunity (Chapter 12) has been brought up to date, including responses to the commensal microbiota and the role of specialized dendritic cells and the regulatory T cells in maintaining

tolerance to food antigens and commensal bacteria. Chapter 13, Failures of Host Defense Mechanisms, has been reorganized and revised to structure an understanding of primary immunodeficiencies in the context of developmental pathways. Chapter 16, Manipulation of the Immune Response, has been heavily revised to include a greater emphasis on clinical issues and a complete update of immunotherapeutics and vaccines. Many new and revised figures illustrate the processes and mechanisms underlying the concepts presented in the text. The icons used have been updated and expanded to incorporate a new emphasis on signaling pathways. New references have been added throughout the text.

## Book Information

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## Customer Reviews

The original volumes of Janeway were deservedly considered classics. They disrupted the paradigm of texty, word-heavy tomes in favor of refreshingly simple, comprehensive, coherent diagrams. This latest volume does include many of the diagrams I remember but they're no longer central to the text. I actually read my first copy of Janeway cover to cover in about a week - that's how great it was. I will use this latest version as a reference, but the greatness has been lost under the sheer weight of dry text. This feels like a book that was written by committee with an eye on incorporating information rather than teaching this fascinating subject to eager students. It's probably still better than most of the other immunology texts out there, but it's no longer an autobuy for me.

There are already many comments on the content, but I wanted to speak to the format of the Kindle Version. First and foremost, the Kindle version is a "print" format which means it will not work on the black-and-white Kindles -- not even the new Kindle Paperwhite. It needs to render images so only the Kindle Fire series, PCs, MACs, and iPad are supported. I don't know why the Android systems are not supported -- it might be a licensing thing. Even though this textbook is in "print" format, you will still be able to interact with the text -- highlight words, phrases or sentences; use the dictionary; and even add bubble notes. Zoomed all the way out, the Kindle version looks exactly like the print version. The added features are more like PDF files -- you can do a search, copy text and paste from it, highlight, and as already mentioned, add notes (in a bubble style like in Adobe). I bought the physical printed version and the Kindle version at the same time...after a few days pondering the pros/cons of print versus ebook, I returned the printed version, and committed to the Kindle version. Since I'm an Android tablet user, I'm tied to my home computer or laptop when I want to read, but this is no major inconvenience. I have four graduate level classes this semester, and no physical textbooks. This is the lightest my backpack has ever been.

I was heavily reliant on this book for an immunology course I took as an elective, and while I am impressed by the amount of research and effort that went into this textbook, I wasn't impressed by the presentation of the content. Sure, this book is very detailed, and its scientific journal-like diction helped me a lot when it came down to reading scientific literature, but the material was written in a very convoluted way. It seemed like this was meant for a group of students who were already versed in the topic of immunology, somewhat, and not for people who like me were new to the subject. In some chapters the book would begin talking about one system, move on another system and then loop back around to the first system. Chapter divisions were really nice and so were the summaries because it is very hard to skim over this text to review or look for pertinent information. Some information that took 3 pages to explain were already evident in a preceding diagram, and could have been summarized onto a single page. I definitely learned a lot from reading the book and the illustrations were great, but I felt that getting through a 50 page chapter took a lot of caffeine and will power- that stuff is dense!

This is the required text for my Immunobiology class. As I slogged through the first chapter, which was a very detailed overview of the immune system I hoped that the going would get easier when I got to the chapters on the individual components of the immune system. Second chapter: still very tough going. This book goes into a lot of detail and has some great figures and micrographs that

help display the material. The two main problems is that with so much detail it's "hard to see the forest for the trees". The main points are obscured in a flood of details. The other problem is that the authors tend to jump around a lot. Often you read, "we will discuss this later in the chapter" and they jump to another topic. Really kills the flow and makes it tough to keep at it. So at this point I'd say it's taking about one evening to read 10 pages. The 70 page chapter on the innate immune system didn't get read for my next class. In summary, all the information is there, somewhat obscured by a flood of details. Expect to spend a long time grinding through if you're trying to learn the material with this book.

At first I ordered the abridged version of this book but realized half way through the class that it didn't answer some of the deeper questions I had about immunology. Thus I ordered this book and found that it was very helpful in filling in those blanks. I liked all the case studies especially because it helped make the topic more clinically relevant.

I have been out of school for more than 20 years, but when I needed to brush up on my immunology, I found Janeway's through an industry associate. It happens to be superbly illustrated, with details and explanations far beyond the text that I used in college. I would highly recommend this book for the student or for someone like myself, who needs a reference book or a refresher.

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