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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.

Great book. Very easy to follow and has lots of illustrations to help make concepts clear. I did the rental option, and it has been great since the price of the book is definitely over priced for a student's budget (but probably rightfully priced compared to other similar immunology textbooks). This is a very detailed textbook, so if you just need something to reference for an overview, this book might be too much or seem overwhelming.

Hi, I bought this book for a college Immunology class. It covers a lot of ground and I think it got the job done. I don't have any other immunology textbooks to compare to. If you are looking to buy this book for school then you probably have no choice. I wish you all the best. Cons The cover and binding are very flimsy and the pages came off within two semesters of use. I had to have the entire binding re-glued. Pros Covers a lot of immunology material as well lab techniques. I was able to resell it after I was done.

This is well written, easy to read and easy to follow. Each chapter starts with a summary of the material to be covered. The subchapters do the same and finish with a summary. Finally a chapter summary ties it all together. There are numerous easy to understand illustrations. As a physician who completed medical school in 84 I found the book to be very informative and loaded with new concepts. My son is using this book instead of the one recommended for his Immunology course at

U of Central FL.

Phew! This book is not for the faint-of-heart. I used this as a textbook for an introductory immunology course, and reading each chapter was quite a difficult, but educational, endeavor. I get the feeling that it was designed to be used more as a reference for physicians and immunologists, and it would be good for that purpose since each chapter can stand alone fairly well (in other words, good for the reader who has already taken a good course in immunology). There is tremendous attention to detail with this book. It is very dense, and although there is repetition from chapter-to-chapter (necessary to bring the full picture together), not a sentence is wasted. The figures are consistent and for the most part, well-done. Immunology is just not an easy subject to present, so I can't fault this book for its presentation of the material. It did just as fine a job of that as I think any book could. I did use a simpler supplemental book to help me understand the subject, which was excellent!! That book is *How the Immune System Works, Includes Desktop Edition* (Wiley Desktop Editions). If someone is looking to get a more cursory education of the immune system, I would certainly recommend THAT book, and certainly not THIS book. For what it is though, this is certainly a winner of a textbook.

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'm not much of a fan of reading an immuno book, but I really enjoyed this one. I will say that this is not an intro level read, but it does break down complicated concepts. The diagrams and animations that accompany this book were easy to follow and really helped solidify some concepts. I think that it's good enough that I kept it. Plus, I got an A- out of the class, so it's a winner in my opinion!

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