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Guide to Signal Pathways in Immune Cells

By E. Nigel Wardle



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To read current biomedical science, one has to have a working knowledge of how important effector molecules cause transduction of their signal within cells, altering the control of genes. This work aims to provide that basic knowledge for medical readers. Students of immunology or cell biology will note its relevance. One will learn how platelets, macrophages, neutrophils, T and B lymphocytes and natural killer cells perform their functions and how skin, breast, prostate and colon cancers emerge. The associated diagrams and tables are used to obviate extensive text. Appropriate references to articles and reviews by workers in each field are given so that further consideration can easily be undertaken. We are all at differing stages of our appreciation of immunology and of pat- physiology. Some persons will have a profound background in biochemistry or molecular biology. Others will have a reminiscence of lectures received years ago. Since this work is principally for clinical doctors, the sections that can be avoided at first reading are marked with an asterisk (*). Always proceed line by line and think of associations that you know. Do you feel comfortable with the statement, “Interleukin 6 stimulates glucose uptake in renal proximal tubular cells, and that action is associated with Stat3, PI3K/Akt, MAPKs and NF-kB signal pathways”? If not, please read on.



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Editorial Review

Review

From the reviews:

“This book describes the basic signaling pathways that are used by cells of the immune system The target audience is students, particularly those interested in immune mechanisms. Another group that may find it useful includes physicians who have not kept up with the signal transduction pathway literature and need updated information. ... It would certainly be useful for clinicians who have not kept up to date on these pathways and do not have the time to search for review articles.” (Marion C. Cohen, Doody’s Review Service, December, 2009)

“I found this to be a remarkable book. The scope of the volume is very wide, covering both the generalities and specifics of cell signalling in the immune system. ... General areas ... are succinctly covered with informative tables and appropriate line drawings. ... An excellent book which one would be happy to find in the library” (Eric Blair, Microbiology Today, January, 2010)

From the Back Cover

In Guide to Signal Pathways in Immune Cells, Nigel E. Wardle presents vital information in regards to white cells, like the neutrophils and macrophages, T and B lymphocytes, natural killer cells and mast cells, as they constitute the immune defenses against microbial invaders or tumor cells. In all such cells the necessary information processing for their activities utilizes a network of intracellular signaling pathways. As a guide this book aims to extend understanding of the basic signal transduction pathways that will be suitable for students of immunology or cell biology and for medical personnel at all levels.

Users Review

From reader reviews:

Patricia Howard:

Book is definitely written, printed, or descriptive for everything. You can recognize everything you want by a book. Book has a different type. To be sure that book is important factor to bring us around the world. Beside that you can your reading expertise was fluently. A reserve Guide to Signal Pathways in Immune Cells will make you to possibly be smarter. You can feel a lot more confidence if you can know about every thing. But some of you think this open or reading a book make you bored. It isn't make you fun. Why they might be thought like that? Have you in search of best book or acceptable book with you?

Heather Vazquez:

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Robert Long:

Reading can called mind hangout, why? Because if you are reading a book specifically book entitled Guide to Signal Pathways in Immune Cells your mind will drift away trough every dimension, wandering in each and every aspect that maybe mysterious for but surely can become your mind friends. Imaging each word written in a e-book then become one type conclusion and explanation which maybe you never get just before. The Guide to Signal Pathways in Immune Cells giving you one more experience more than blown away the mind but also giving you useful data for your better life within this era. So now let us teach you the relaxing pattern this is your body and mind is going to be pleased when you are finished reading through it, like winning an activity. Do you want to try this extraordinary shelling out spare time activity?

Sue Randall:

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