



Primer to the Immune Response

By Tak W. Mak, Mary E. Saunders, Bradley D. Jett

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Written in the same engaging conversational style as the acclaimed first edition, **Primer to The Immune Response, 2nd Edition** is a fully updated and invaluable resource for college and university students in life sciences, medicine and other health professions who need a concise but comprehensive introduction to immunology. The authors bring clarity and readability to their audience, offering a complete survey of the most fundamental concepts in basic and clinical immunology while conveying the subject's fascinating appeal.

The content of this new edition has been completely updated to include current information on all aspects of basic and clinical immunology. The superbly drawn figures are now in full color, complemented by full color plates throughout the book. The text is further enhanced by the inclusion of numerous tables, special topic boxes and brief notes that provide interesting insights. At the end of each chapter, a self-test quiz allows students to monitor their mastery of major concepts, while a set of conceptual questions prompts them to extrapolate further and extend their critical thinking. Moreover, as part of the Academic Cell line of textbooks, **Primer to The Immune Response, 2nd Edition** contains research passages that shine a spotlight on current experimental work reported in Cell Press articles. These articles also form the basis of case studies that are found in the associated online study guide and are designed to reinforce clinical connections.

- Complete yet concise coverage of the basic and clinical principles of immunology
- Engaging conversational writing style that is to the point and very readable
- Over 200 clear, elegant color illustrations
- Comprehensive glossary and list of abbreviations

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Editorial Review

Review

"This immensely useful book will be of great value to students studying immunology modules within a wide range of undergraduate programmes, as well as those with a biological background who are keen to update themselves..."--*The Biologist*, Vol 61, No 6

"...a great resource for college and university students in life sciences, medicine and other health professions who need a concise but comprehensive introduction to immunology...The content of this new edition has been updated to include current information on all aspects of basic and clinical immunology. Drawn figures are now in full color, complemented by full color plates throughout the book."--***Anticancer Research* 34, 2014** "Primer to The Immune Response contains all the essential knowledge the undergraduate and medical student needs to know on B cell development, activation and effector functions."--Zhenyu Hao, University of Toronto "Medical students, in particular, will find it a valuable guide and friendly companion in finding their way through the maze of complications surrounding the autoimmune diseases."--Noel Rose, Director, Johns Hopkins Center for Autoimmune Disease Research

From the Back Cover

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About the Author

Tak W. Mak is the Director of the Campbell Family Institute for Breast Cancer Research in the Princess Margaret Hospital, Toronto, Canada, and a University Professor in the Departments of Medical Biophysics and Immunology, University of Toronto. He was trained at the University of Wisconsin in Madison, the University of Alberta, and the Ontario Cancer Institute. He gained worldwide prominence in 1984 as the leader of the team that first cloned the genes of the human T cell antigen receptor. His group went on to create a series of genetically altered mice that have proved critical to understanding intracellular programs governing the development and function of the immune system, and to dissecting signal transduction

cascades in various cell survival and apoptotic pathways. His current research remains centered on mechanisms of immune recognition/regulation, malignant cell survival/death, inflammation in autoimmunity and cancer, and metabolic adaptation in tumor cells. Dr. Mak has published over 700 papers and holds many patents. He has been granted honorary doctoral degrees from universities in North America and Europe, is an Officer of the Orders of Canada and Ontario, and has been elected a Foreign Associate of the National Academy of Sciences (U.S.), a Fellow of the Royal Society of London (U.K.), and a Fellow of the AACR Academy. Dr. Mak has won international recognition as the recipient of the Emil von Behring Prize, the King Faisal International Prize for Medicine, the Gairdner Foundation International Award, the Sloan Prize of the General Motors Cancer Foundation, the Novartis Prize in Immunology, the Robert Noble Prize, the Killam Prize, the Stacie Prize, the McLaughlin Medal, and the Paul Ehrlich and Ludwig Darmstaedter Prize.

Mary E. Saunders holds the position of Scientific Editor for the Campbell Family Institute for Breast Cancer Research, Toronto, Canada. She completed her B.Sc. degree in Genetics at the University of Guelph, Ontario, and received her Ph.D. in Medical Biophysics at the University of Toronto. Dr. Saunders works with Dr. Mak and members of his laboratory on the writing and editing of scientific papers for peer-reviewed journals as well as on various grant applications and book projects. She takes pride and pleasure in producing concise, clear, highly readable text and making complex scientific processes readily understandable.

Bradley D. Jett is the James Hurley Professor of Biology at Oklahoma Baptist University (OBU) in Shawnee, Oklahoma, USA. He completed his B.S. degree in Biology from OBU, followed by his Ph.D. in Microbiology and Immunology from the University of Oklahoma College of Medicine. After a postdoctoral fellowship at Washington University in St. Louis, Missouri, he joined the faculty at the University of Oklahoma College of Medicine. His research interests are primarily focused on host-parasite relationships. Much of his published work relates to the virulence factors of Gram-positive bacteria such as *Enterococcus*, *Staphylococcus* and *Bacillus*, as well as the host immunological responses to these infections. In his current full-time, undergraduate teaching position at his alma mater, he has been awarded Oklahoma Baptist University's Promising Teacher Award and the Distinguished Teaching Award.

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