


Current Topics in Microbiology and Immunology

Tomohiro Kurosaki
Jürgen Wienands *Editors*

B Cell Receptor Signaling

 Springer

B Cell Receptor Signaling Current Topics In Microbiology And Immunology

**National Institute for Medical
Research (Great Britain)**



B Cell Receptor Signaling Current Topics In Microbiology And Immunology:

B Cell Receptor Signaling Tomohiro Kurosaki, Jürgen Wienands, 2015-12-26 This volume details our current understanding of the architecture and signaling capabilities of the B cell antigen receptor BCR in health and disease. The first chapters review new insights into the assembly of BCR components and their organization on the cell surface. Subsequent contributions focus on the molecular interactions that connect the BCR with major intracellular signaling pathways such as Ca²⁺ mobilization, membrane phospholipid metabolism, nuclear translocation of NF- κ B or the activation of Bruton's Tyrosine Kinase and MAP kinases. These elements orchestrate cytoplasmic and nuclear responses as well as cytoskeleton dynamics for antigen internalization. Furthermore, a key mechanism of how B cells remember their cognate antigen is discussed in detail. Altogether, the discoveries presented provide a better understanding of B cell biology and help to explain some B cell mediated pathogenicities like autoimmune phenomena or the formation of B cell tumors while also paving the way for eventually combating these diseases.

Mad Cow Disease and Related Spongiform Encephalopathies David A. Harris, 2004-03-18 Bovine spongiform encephalopathy (BSE) has become the most publicly recognizable example of a group of fatal neurodegenerative diseases caused by proteinaceous infectious particles called prions. The contributors to this volume, all internationally recognized experts in their fields, provide an introduction to prion biology followed by reviews of the latest information on BSE, vCJD and chronic wasting disease, an animal prion disease that has recently emerged in North America.

Cell Biology of the B Cell Receptor Hidde Ploegh, 2014-05-16 *Advances in Immunology*, a long established and highly respected publication, presents current developments as well as comprehensive reviews in immunology. Articles address the wide range of topics that comprise immunology, including molecular and cellular activation mechanisms, phylogeny and molecular evolution, and clinical modalities. Edited and authored by the foremost scientists in the field, each volume provides up to date information and directions for the future. Contributions from leading authorities inform and update on all the latest developments in the field.

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Structural Concepts in Immunology and Immunochemistry Elvin Abraham Kabat,1976 **Analysis of CD3 Molecules in Amphibian and Avian Representatives** Robin Carolyn Dzalo,1996 **Transcriptional Mechanisms and Gene Profiles in B Cell Development** Lisa Patrone,2002 **Molecular Biology of the Cell** ,2003 *Cellular and Molecular Immunology* Abul K. Abbas,Andrew H. Lichtman,Jordan S. Pober,2000 The new edition of this text continues the tradition of delivering an accessible engaging and current introduction to this essential subject It describes the principles of basic and applied immunology in a concise straightforward manner while incorporating a wealth of current information Over 330 new full color illustrations help readers grasp important information quickly and easily Report National Institute for Medical Research (Great Britain),1985 Psychoneuroimmunology Robert Ader,David L. Felten,Nicholas Cohen,2001 Psychoneuroimmunology is the study of interactions among behavioral neural and endocrine and immunologic processes of adaptation These two volumes provide a clearly written extensively referenced summary of some of the behavioral neural and endocrine regulators of immune responses and immunologically mediated disease processes and of the behavioral and neuroendocrine effects of immune system activity Several chapters expand upon topics reviewed in earlier editions of this series most chapters cover active areas of research that have not previously been reviewed As illustrated in this fourth edition interdisciplinary research continues to provide evidence that the brain and immune system represent a single integrated system of defense Fully revised and updated fourth edition of the classic reference Provides a neuroendocrine and immunologic perspective for the behavioral scientist Provides a behavioral and neuroscience perspective for the immunologist Helps the reader translate basic science findings into clinically relevant information Provides the reader with the background for and foundation of integrative research and integrative medicine Provides an encyclopedic resource for advanced undergraduates and for pre and post doctoral students as well as active researchers Chemical Abstracts ,1995-09-11 Basic Immunology Abul K. Abbas,Andrew H. Lichtman,2001 BASIC IMMUNOLOGY emphasizes the fundamental concepts and principles of human immunology that students need to know without overwhelming them with extraneous material This entirely new book leads the reader to a firm understanding of basic principles in the field using full color illustrations short easy to read chapters numerous color tables that summarize key information clinical cases and much more all in a conveniently sized volume that s easier to carry and refer to than a larger exhaustive text

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