

Shuiping Jiang *Editor*

T_H17 Cells in Health and Disease

 Springer

TH17 Cells in Health and Disease, Shuiping Jiang, Springer, 2011, 1441993711, 9781441993717, 550 pages. About 25 years ago, Mosmann & Coffman introduced the TH1 / TH2 paradigm of T helper cell differentiation which helped explain many aspects of adaptive immunity from eliminating intracellular versus extracellular pathogens to induction of different types of tissue inflammation. However, TH1 / TH2 paradigm could not adequately explain development of certain inflammatory responses which provided impetus for the discovery of a new subset of T cells called TH17 cells. After the discovery of differentiation and transcription factors for TH17 cells, it was clear that TH17 cells represent an independent subset of T cells with specific functions in eliminating certain extracellular pathogens, presumably not adequately handled by TH1 or TH2 cells. The major role of TH17 cells has been described in inducing auto-immune tissue inflammation. The discovery of TH17 cells has expanded the TH1 / TH2 paradigm, and the integration of TH17 cells with TH1 and TH2 effector T cells is beginning to explain the underlying mechanisms of tissue inflammation in a number of infections and auto-immune disease settings. - From Chapter One by Vijay K. Kuchroo, Harvard University, USA The recently identified Interleukin 17 (IL-17) cytokine family contributes to immunity to infectious diseases and chronic inflammatory diseases. Further studies on the regulation and function of this important cytokine family may provide better understanding on the roles of the IL-17 family in immune-mediated diseases; such knowledge may lead to the development of immunotherapeutic strategies for treatment of several inflammatory diseases. - From Chapter Two by Chen Dong, University of Texas and MD Anderson Cancer Center, USA.

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Natural Killer T cells Balancing the Regulation of Tumor Immunity, Masaki Terabe, Jay A. Berzofsky, Sep 22, 2011, Medical, 216 pages. This book will cover primary roles of NKT cells in immunity to cancer, in both mouse tumor models and cancer patients. There are several chapters describing general aspects of

The innate immune system strategies for disease control : proceedings of the Uehara Memorial Foundation Symposium on the Innate Immune System ..., held in Tokyo, Japan between 11 and 13 July 2005, Masaru Taniguchi, S. Akira, Toshinori Nakayama, 2005, Medical, 216 pages. The Innate Immune System: Strategies for Disease Control is the result of proceedings the Uehara Memorial Foundation Symposium held in Tokyo, Japan. The latest research on

My Story from M to S Multiple Sclerosis: Hiding a Monster? Or a Monster Sleeping?, Mark Stewart, Jul 13, 2012, Biography & Autobiography, . I laughed, I cried, I saw what true strength is give so much to others and through this book I gave so much to myself, Mark Stewart One word prevails and that is "STRENGTH". An

Regulatory T-Cells , , Nov 21, 2011, Medical, 240 pages. Advances in Immunology, a long-established and highly respected publication, presents current developments as well as comprehensive reviews in immunology. Articles address the

Immune Receptors Methods and Protocols, Jonathan P. Rast, James W.D. Booth, Jun 29, 2011, , 301 pages. Immunology has made significant progress in the past decade, driven forward by rapidly advancing technology and a renewed interest in the vast realm of innate immunity. The

Advances in Immunology, Volume 98 , Frederick W. Alt, Sep 2, 2011, Medical, 258 pages. Advances in Immunology, a long-established and highly respected publication, presents current developments as well as comprehensive reviews in immunology. Articles address the

Genes and Obesity , , Nov 15, 2010, Science, 416 pages. A number of genes have been identified that are associated with an increased Body Mass Index (BMI), the standard measurement of obesity. By analyzing these genes, researchers

The Year in Immunology 2 , Noel R. Rose, Feb 15, 2010, Medical, 300 pages. This volume in The Year in Immunology series focuses on reviews covering novel approaches to our understanding of immunoregulatory mechanisms. A wide-range of topics is covered

The Role of Th17-related Cytokines in Murine Graft-versus-host Disease , Lucy Willis Kappel, 2009, , 112 pages. Recently, a new helper T cell population, Th17 cells, has been identified. Th17 cells are characterized by the secretion of IL-17, IL-17F, IL-22 and IL-21, and the expression

New initiatives in immunology, Parts 1-2 , National Institute of Allergy and Infectious Diseases (U.S.). Immunology Study Group, 1981, Medical, . .

Mathematical Models and Immune Cell Biology , Carmen Molinaparis, Grant Lythe, May 5, 2011, Medical, 424 pages. This volume contains chapters on mathematical modeling, on immunology, and on mathematical modeling in immunology. The reader will also find chapters on dendritic cells, B

Regulatory T Cells and Clinical Application , Shuiping Jiang, Dec 14, 2008, Medical, 608 pages. The immune system reacts vigorously to foreign invaders such as viruses, bacteria, protozoa, and parasites, and yet shows unresponsiveness to our own proteins. In the past

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