The Content of A New Book

Publisher: Springer

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Title: Cytokine Frontiers: Regulation of Immune Responses in Health and Disease

Topic: The immune system is a complex network designed to protect the host from both external threats such as bacteria and viruses and internal threats such as malignant transformation. Immune cells produce a variety of products that allow them to communicate with each other and orchestrate the immune responses. Cytokines are important protein mediators secreted by the immune cells in response to microbes and other antigens, and different cytokines stimulate diverse responses of cells involved in immunity and inflammation. In clinical medicine, cytokines are important as therapeutic agents and as targets for specific agonists or antagonists in numerous immune and inflammatory diseases. The subject and purpose of this book is to summarize original properties of each cytokine to its updated roles under physiological and pathological conditions. Fifteen important cytokines among various cytokines, whose topics will provide the reader with great interest, were selected.

Chapters and Authors:

Part 1. Cytokines in Inflammatory Disorders
1. IL-1: Charles A. Dinarello (University of Colorado Denver, USA)
2. IL-6: Masaaki Murakami (Osaka University, Japan)
3. IL-17: Yoichiro Iwakura (University of Tokyo, Japan)
4. IL-21: Warren J. Leonard (National Institutes of Health, USA)
5. IL-22: Wenjun Ouyang (Genentech, USA)
6. IL-23: Daniel J. Cua (Merck Research Laboratories, USA)
7. IL-36: John E. Sims (Amgen, USA)
8. TNF-α: Marc Feldmann (University of Oxford, UK)

Part 2. Cytokines in Allergic Disorders
9. IL-13: Marsha Wills-Karp (Johns Hopkins Bloomberg School of Public Health, USA)
10. IL-18: Haruki Okamura (Hyogo College of Medicine, Japan)
11. IL-25: Hiroshi Nakajima (Chiba University, Japan)
12. IL-33: Tomohiro Yoshimoto (Hyogo College of Medicine, Japan)
13. TSLP: Steven F. Ziegler (Benaroya Research Institute, USA)

Part 3. Cytokines in Immunological Tolerance and Anti-inflammation
14. IL-10: Anne O'Garra (MRC National Institute for Medical Research, UK)
15. IL-27: Takayuki Yoshimoto (Tokyo Medical University, Japan)
16. IL-35: Dario A. A. Vignali (St Jude Children's Research Hospital, USA)