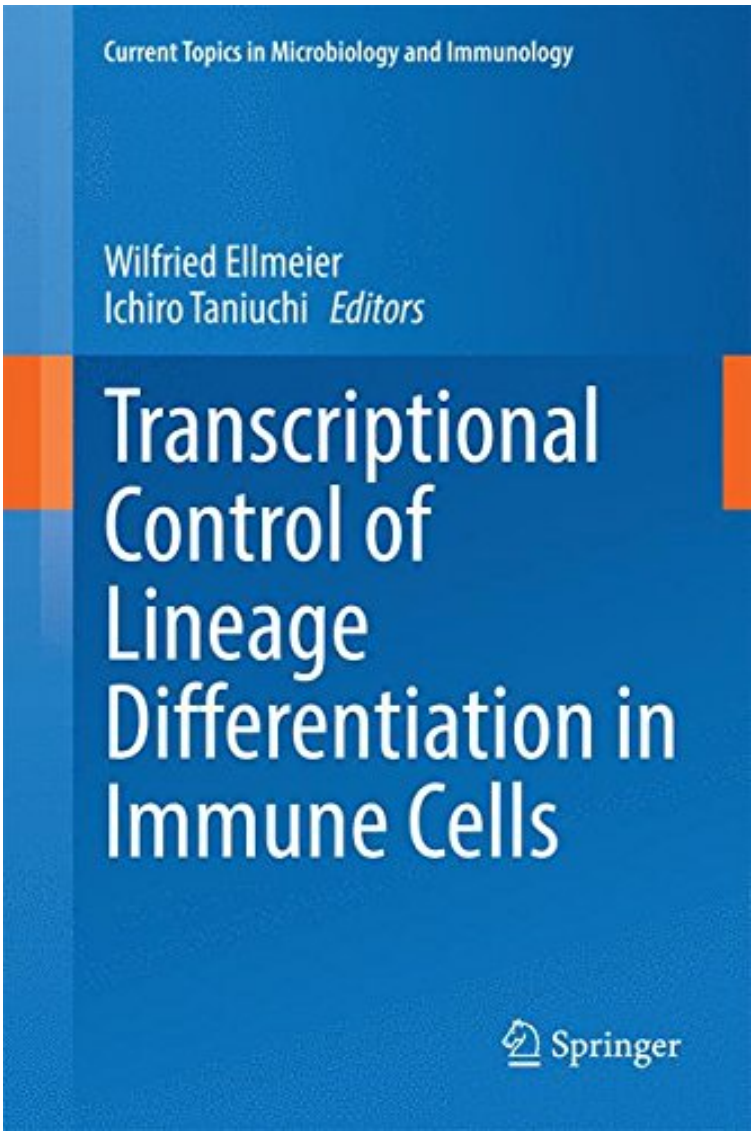
# Transcriptional Control of Lineage Differentiation in Immune Cells (Current Topics in Microbiology and Immunology)








#6699078 in Books Ingramcontent 2014-09-03Original language:EnglishPDF # 1 9.21 x .81 x 6.14l, .0 #File Name: 331907394X331 pagesTranscriptional Control of Lineage Differentiation in Immune Cells Current Topics in Microbiology and Immunology | File size: 46.Mb

**From Ingramcontent : Transcriptional Control of Lineage Differentiation in Immune Cells (Current Topics in Microbiology and Immunology)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Transcriptional Control of Lineage Differentiation in Immune Cells (Current Topics in Microbiology and

Immunology):

Insights into the regulation of immune cell lineage differentiation and specification as well as into the control of lineage integrity, stability and plasticity are of fundamental importance to understanding innate and adaptive immune responses. In this volume, leading experts provide an up-to-date and comprehensive overview of recent advances in the transcriptional control mechanisms and transcription factor networks that regulate these processes in a variety of different immune cell lineages. The chapters cover the regulation of T versus B cell lineage choice, discuss early B cell development and pre-B cell leukemia prevention, address transcriptional control mechanisms during the differentiation, in regulatory T cells and iNKT cells, detail genomic switches in helper cell fate choice and plasticity and highlight the role of the BTB-zinc finger family of transcription factors in T cells. Moreover, the chapters discuss transcriptional networks in DCs, NK cells and in innate lymphoid cells. Together, the reviews illustrate key transcriptional control mechanisms that regulate the development and function of immune cells and demonstrate the impressive advances made over the last decade.

From the Back CoverInsights into the regulation of immune cell lineage differentiation and specification as well as into the control of lineage integrity, stability and plasticity are of fundamental importance to understanding innate and adaptive immune responses. In this volume, leading experts provide an up-to-date and comprehensive overview of recent advances in the transcriptional control mechanisms and transcription factor networks that regulate these processes in a variety of different immune cell lineages. The chapters cover the regulation of T versus B cell lineage choice, discuss early B cell development and pre-B cell leukemia prevention, address transcriptional control mechanisms during Th differentiation, in regulatory T cells and iNKT cells, detail genomic switches in helper cell fate choice and plasticity, and highlight the role of the BTB-zinc finger family of transcription factors in T cells. Moreover, the chapters discuss transcriptional networks in DCs, NK cells and in innate lymphoid cells. Together, the reviews illustrate key transcriptional control mechanisms that regulate the development and function of immune cells and demonstrate the impressive advances made over the last decade.About the AuthorWilfried Ellmeier, PhD., is Professor of Immunology at the Institute of Immunology, Center for Pathophysiology, Infectiology and Immunology Medical University of Vienna, Austria. Taniuchi Ichiro, M.D. PhD. Professor is Group Director of the Laboratory for Transcriptional Regulation RIKEN Research Center for Allergy and Immunology (RCAI), Japan.