

|                         |  |
|-------------------------|--|
| 1. Record Nr.           | UNINA9910298344003321  |
| Titolo                  | Transcriptional Control of Lineage Differentiation in Immune Cells // edited by Wilfried Ellmeier, Ichiro Taniuchi   |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014  |
| ISBN                    | 3-319-07395-8  |
| Edizione                | [1st ed. 2014.]  |
| Descrizione fisica      | 1 online resource (334 p.)   |
| Collana                 | Current Topics in Microbiology and Immunology, , 0070-217X ; ; 381   |
| Disciplina              | 612  |
| Soggetti                | Immunology   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Description based upon print version of record.  |
| Nota di bibliografia    | Includes bibliographical references at the end of each chapters and index.   |
| Nota di contenuto       | Genetic and epigenetic control of early lymphocyte development -- The role of BTB-zinc finger transcription factors during T cell development and in the regulation of T cell-mediated immunity -- Transcriptional control of the development and function of V14i NKT cells -- Transcriptional Control of Regulatory T cells -- Transcriptional regulatory networks for CD4 T cell differentiation -- Transcriptional control of NK cell differentiation and function -- Transcriptional control of pre-B cell development and leukemia prevention -- Transcription factors controlling innate lymphoid cell fate decisions -- Transcriptional control of dendritic cell differentiation -- Helper T cell plasticity: Impact of Extrinsic and Intrinsic Signals On Transcriptomes and Epigenomes. |
| Sommario/riassunto      | 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 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.

---