

1. Record Nr.	UNINA9910298311503321
Titolo	Thymic Development and Selection of T Lymphocytes // edited by Thomas Boehm, Yousuke Takahama
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
ISBN	3-642-40252-6
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (134 p.)
Collana	Current Topics in Microbiology and Immunology, , 0070-217X ; ; 373
Disciplina	611.01816
Soggetti	Immunology Human physiology Cytogenetics Human Physiology
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 and index.
Nota di contenuto	Development and Function of Cortical Thymic Epithelial Cells -- Mechanisms of Thymus Medulla Development And Function -- Self-peptides in TCR Repertoire Selection and Peripheral T Cell Function. - Central Tolerance Induction -- Trafficking to the Thymus -- The CD4/CD8 Lineages: Central Decisions and Peripheral Modifications for T Lymphocytes.
Sommario/riassunto	The thymus is an evolutionarily ancient primary lymphoid organ common to all vertebrates in which T cell development takes place. Failing thymus function is associated with immunodeficiency and/or autoimmunity. In this volume, leading experts provide a comprehensive overview of recent advances in thymopoiesis research. The chapters cover the development of the thymic epithelial microenvironment, address the formation of a diverse and self-tolerant repertoire of T cell receptors as the basis for cellular immunity, discuss the mechanisms by which progenitor cells colonize the thymus and detail the molecular basis for T lineage decisions. The reviews illustrate the important role of the multifaceted process of thymopoiesis for adaptive immunity.