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Autore	Smith Kendall A
Titolo	The quantal theory of immunity [[electronic resource]] : the molecular basis of autoimmunity and leukemia / / Kendall A. Smith
Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific, 2010
ISBN	1-283-14368-2 9786613143686 981-4271-76-4
Descrizione fisica	1 online resource (200 p.)
Disciplina	616.079 616.97/8 616.978
Soggetti	Immune response Interleukin-2 T cells Electronic books.
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	Acknowledgements; Prologue; Contents; Chapter 1 Introduction - The Evolution of Our Understanding of the Immune System; Chapter 2 Molecular Immunology; Chapter 3 The Problem - Understanding How Molecules Direct the Behavior of Cells Comprising the Immune System; Chapter 4 The Quantal Theory of Immunity; Chapter 5 The Variability of Cell Cycle Progression and the Competence and Progression Phases of the Cell Cycle; Chapter 6 The Quantal Nature of IL-2-Promoted T Cell Cycle Progression Chapter 7 The Molecular Basis for Quantal IL-2/IL-2R Signaling of Cell Cycle Progression - TheIL-2/Receptor InteractionChapter 8 The Molecular Basis for Quantal IL-2/IL-2R Signaling of Cell CycleProgression - IL-2 and IL-2 Receptor Metabolism; Chapter 9 The Molecular Basis for Quantal IL-2/IL-2R Signaling of Cell Cycle Progression - IL-2 Receptor Signaling viathe Jak/Stat Pathway; Chapter 10 The Molecular Basis for Quantal IL-2/IL-2R Signaling of Cell Cycle Progression - IL-2 Receptor Signaling via Phospho

Chapter 11 The T Cell Antigen Receptor Complex and the Quantal Regulation of the IL-2 and IL-2R GenesChapter 12 Digital Signaling via the T Cell Antigen Receptor Complex; Chapter 13 Negative Feedback Regulation of T Cell Antigen Receptor Complex Signaling - Attenuation of IL-2Gene Expression; Chapter 14 The Paradox of the IL-2 (-/-) Mouse; Chapter 15 The Scurfy Mouse; Chapter 16 Lymphopenia, Autoimmunity and the Regulatory T Cell (Treg); Chapter 17 Treg-mediated "Active Suppression" of T Cell Proliferation; Chapter 18 FOXP3, A Better ID-Tag for Tregs?; Chapter 19 Mice Versus Men Chapter 20 Active Versus Passive Suppression and IL-2 MetabolismChapter 21 FOXP3 Restricts But Does Not Suppress IL-2 Production; Chapter 22 Both the TCR and IL-2 Regulate FOXP3 Expression; Chapter 23 The Effects of FOXP3 Expression; Chapter 24 The Role of IL-2 in the Generation of Immune Responses In Vivo; Chapter 25 The Role of the IL-2r Chains in IL-2 Signaling, Consumption and Suppression of T Cell Proliferation; Chapter 26 T Cell Tissue-specific Autoimmunity; Chapter 27 Type 1 Diabetes Mellitus (T1DM), a Prototypic Genetic Autoimmune Disease with a Tie to IL-2 Chapter 28 The Pathogenesis of Leukemia - Loss of Normal Quantal Growth ControlEpilogue; Index

Sommario/riassunto

This book explains how the immune system functions, namely, how individual cells of the immune system make the decision to respond or not to respond to foreign microbes and molecules, and how the critical molecules function to trigger the cellular reactions in an all-or-none (quantal) manner. To date, there has not been a complete description of the immune system and its cells and molecules, primarily because most of the information has accumulated only in the last 40 years and our understanding has been expanding rapidly only in the last 20 years. It is now clear that the cells have evolved a

2. Record Nr. UNINA9910799226403321

Autore	Gulzar Ruquia
Titolo	Field Manual on Alien Flora of Kashmir Himalaya : Casual, Naturalised and Invasive Plants / / by Ruquia Gulzar, Anzar Ahmad Khuroo, Irfan Rashid
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-33847-2
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (XVI, 226 p. 204 illus., 203 illus. in color.)
Collana	Invading Nature - Springer Series in Invasion Ecology, , 2543-0483 ; ; 15
Disciplina	297.05
Soggetti	Introduced organisms Botany Plant ecology Biodiversity Population biology Ecology Invasive Species Plant Science Plant Ecology Population Dynamics Environmental Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Introduction -- Chapter 2. How to use the Field Manual? -- Chapter 3. Species' Profile.
Sommario/riassunto	The book "Field Manual on Alien Flora of Kashmir Himalaya: Casual, Naturalised and Invasive Plants" has been prepared with two main goals in mind: (i) to promote awareness on the threats of invasive alien plants to biodiversity, ecology and environment, and (ii) to encourage research on, and management of, the alien plants. The Manual contains concise information on the taxonomy, ecology, invasion status, impacts, distribution and illustrated photo-plates of the alien plant species of Kashmir Himalaya, India. The Manual has three chapters: Chapter-I

provides a general introduction to the discipline of invasion ecology. Chapter-II guides the readers on how to use the Manual, including brief information on the study region, methods, definitions and terminology used. Chapter-III comprises the bulk of this Manual, providing profileof 100 alien plant species with scientific information on the botanical, english and local names, taxonomic characters, ecological traits, current invasion status (casual, naturalised and invasive), impacts, native range, species' distribution-map in Kashmir Himalaya and coloured illustrations that will aid in field identification. It is hoped that the Manual will increase awareness on the threats posed by plant invasions among all the stakeholders - researchers, land managers, policy makers, environmentalists, naturalists, citizen-scientists, students, and the general public. It will also help in promoting research, formulating policies and planning management actions to deal with invasive alien species.