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	Nota di contenuto	Part I: Basic Understanding of Co-signal Molecules in T cell activation -- Chapter 1 Co-signal molecules in T cell activation -- Chapter 2 The CD28-B7 family of co-signaling molecules -- Chapter 3 The TNF YNFR family of co-signal molecules -- Chapter 4 Signal transduction via co-stimulatory and co-inhibitory receptors -- Chapter 5 Molecular dynamics of co-signal molecules in t cell activation -- Chapter 6 Role of co-stimulatory molecules in T helper cell differentiation -- Chapter 7 Control of regulatory T cells by co-signal molecules -- Part II: Co-signal Molecules in Health and Disease -- Chapter 8 Stimulatory and inhibitory co-signals in autoimmunity -- Chapter 9 Co-signaling molecules in neurological diseases -- Chapter 10 Costimulation blockade in transplantation -- Chapter 11 Immunotherapy targeting co-signal molecules. .

Sommario/riassunto   This book equips young immunologists and health professionals with a clear understanding of the fundamental concepts and roles of co-signal molecules and in addition presents the latest information on co-stimulation. The first part of the book is devoted to co-signal molecules and the regulation of T cells. Following an initial overview, subsequent chapters examine each co-signal molecule in turn and discuss the mechanisms by which co-signal molecules regulate the different types of T cell. The second part covers various clinical applications, including in autoimmune disease, neurological disorders, transplantation, graft-versus-host disease, and cancer immunotherapy. To date, co-stimulation blockade and co-inhibition blockade have shown beneficial effects and many additional clinical trials targeting co-signal molecules are ongoing. The mechanisms underlying these successful treatments are explained and the future therapeutic potential in the aforementioned diseases is evaluated. Co-signal Molecules in T Cell Activation will be a valuable reference guide to co-stimulation for basic and clinical researchers in the fields of both immunology and pharmaceutical science. .