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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction on cancer immunology and immunotherapy -- Inflammatory and innate immune cells in cancer microenvironment and progression -- Role of innate immunity in cancers and antitumor response -- Role of B cells in anti tumor response -- The role of exhaustion in tumor-induced T cell dysfunction in patients with cancer -- Regulatory T cells and Th17 cells in the immunosuppressive tumor network -- Role of cytokines in tumor immunity and immune tolerance to cancers -- Role of chemokines and chemokine receptors in cancers -- The role of Fas and Fas-ligand in cancers -- MHC class I molecules and cancer progression: Lessons learned from preclinical tumor models -- Role of plasmacytoid dendritic cells in cancer -- Cancer immunoediting: immuno surveillance, immuneequilibrium, and immune escape -- Apoptosis, autophagy and necroptosis in Cancer -- Prognostic value of innate and adaptive immunity in cancers -- Epigenetics and Micro RNAs in cancers -- Immunogenetics of cancers

-- Immunodeficiencies and cancers -- Immunosenescence and cancers
-- Nutrition, immunity and cancers -- Allergies and cancers -- Cancer immunology of transmissible cancers -- Systems biology and systems immunology of cancer -- Principles of immunological diagnostic tests for cancers -- Flow cytometry in cancer immunotherapy: applications, analysis, quality control and future -- Immunohistochemistry of cancers -- Immunology and immunotherapy of graft versus host disease. .

Sommario/riassunto

Cancer Immunology is intended as an up-to-date, clinically relevant review of cancer immunology and immunotherapy. The rapid flow of studies in the field of cancer immunology during the last decade has increased our understanding of the interactions between the immune system and cancerous cells. In particular, it is now well known that such interactions result in the induction of epigenetic changes in cancerous cells and the selection of less immunogenic clones as well as alterations in immune responses. Understanding the cross-talk between nascent transformed cells and cells of the immune system has led to the development of combinatorial immunotherapeutic strategies to combat cancer. This volume is focused on interactions between cancerous cells and various components of the innate and adaptive immune system are fully described. Notably, the principal focus is very much on clinical aspects, the aim being to educate clinicians on the clinical implications of the most recent findings and novel developments in the field. This is to be hoped that this translational book will be comprehensible, cogent and of special value for researchers and clinicians who wish to extend their knowledge on cancer immunology. .
