



## Cancer immunotherapy [ immune suppression and tumor growth /

Prendergast, George C.

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Monografía

There has been major growth in understanding immune suppression mechanisms and its relationship to cancer progression and therapy. This book highlights emerging new principles of immune suppression that drive cancer and it offers radically new ideas about how therapy can be improved by attacking these principles. Following work that firmly establishes immune escape as an essential trait of cancer, recent studies have now defined specific mechanisms of tumoral immune suppression. It also demonstrates how attacking tumors with molecular targeted therapeutics or traditional chemotherapeutic drugs can produce potent anti-tumor effects in preclinical models. This book provides basic, translational, and clinical cancer researchers an indispensable overview of immune escape as a critical trait in cancer and how applying specific combinations of immunotherapy and chemotherapy to attack this trait may radically improve the treatment of advanced disease.

\* Offers a synthesis of concepts that are useful to cancer immunologists and pharmacologists, who tend to work in disparate fields with little cross-communication \* Drs Prendergast and Jaffee are internationally recognized leaders in cancer biology and immunology who have created a unique synthesis of fundamental and applied concepts in this important new area of cancer research \* Summarizes the latest insights into how immune escape defines an essential trait of cancer \* Includes numerous illustrations including: how molecular-targeted therapeutic drugs or traditional chemotherapy can be combined with immunotherapy to improve anti-tumor efficacy; and how reversing immune suppression by the tumor can cause tumor regression

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**Contenido:** Part I: Principles of Cancer Immunobiology -- Introduction -- Cancer Immunoediting: From Immune Surveillance to Immune Escape -- Immunosurveillance: Innate and Adaptive Anti-Tumor Immunity -- Cytokine

Regulation of Immune Tolerance to Tumors -- Immunological Sculpting: Natural Killer Cell Receptors and Ligands -- Immune Escape: Immunosuppressive Networks -- Part II: Cancer Therapeutics -- Cytotoxic Chemotherapy in Clinical Treatment of Cancer -- Targeted Therapeutics in Cancer Treatment -- Concepts in Pharmacology and Toxicology -- Cancer Immunotherapy: Challenges and Opportunities -- Cancer Vaccines -- Part III: Targets and Tactics to Improve Cancer Immunotherapy By Defeating Immune Suppression -- Immunotherapy and Cancer Therapeutics: Why Partner? -- Immune Stimulatory Features of Classical Chemotherapy -- Dendritic Cells and Co-Inhibitory Molecules -- Regulatory T Cells in Tumor Immunity: Role of Toll-like Receptors -- Tumor-associated Macrophages in Cancer Growth and Progression -- Tumor-associated Myeloid-derived Suppressor Cells -- Programmed Death Ligand-1 and Galectin-1: Pieces in the Puzzle of Tumor Immune Escape -- IDO in Immune Escape: Regulation and Therapeutic Inhibition -- Arginase, Nitric Oxide Synthase, and Novel Inhibitors of L-arginine Metabolism in Immune Modulation -- Summary: Future Questions Introduction / George C. Prendergast and Elizabeth M. Jaffee -- Cancer immunoediting : from immune surveillance to immune escape / Ryungsa Kim -- Immunosurveillance : innate and adaptive antitumor immunity / Masahisa Jinushi and Glenn Dranoff -- Cytokine regulation of immune tolerance to tumors / Ming O. Li and Richard A. Flavell -- Immunological sculpting : natural killer cell receptors and ligands / David A. Sallman and Julie Y. Djeu -- Immune escape : immunosuppressive networks / Shuang Wei, Alfred Chang, and Weiping Zou -- Cytotoxic chemotherapy in clinical treatment of cancer / Rajesh Thirumaran, George C. Prendergast, and Paul B. Gilman -- Targeted therapeutics in cancer treatment / Colin D. Weekes and Manuel Hidalgo -- Concepts in pharmacology and toxicology / Richard A. Westhouse and Bruce D. Car -- Cancer immunotherapy : challenges and opportunities / Andrew J. Lepisto, John R. McKolanis, and Olivera J. Finn -- Cancer vaccines / Freda K. Stevenson ... [et al.]. Immunotherapy and cancer therapeutics : why partner? / Leisha A. Emens and Elizabeth M. Jaffee -- Immune stimulatory features of classical chemotherapy / Robbert G. van der Most, Anna K. Nowak, and Richard A. Lake -- Dendritic cells and coregulatory signals : immune checkpoint blockade to stimulate immunotherapy / Drew Pardoll -- Regulatory T cells in tumor immunity : role of toll-like receptors / Rong-Fu Wang -- Tumor-associated macrophages in cancer growth and progression / Alberto Mantovani, Paola Allavena, and Antonio Sica -- Tumor-associated myeloid-derived suppressor cells / Stephanie K. Bunt ... [et al.] -- Programmed death ligand-1 and galectin-1 : pieces in the puzzle of tumor-immune escape / Gabriel A. Rabinovich and Thomas F. Gajewski -- Indoleamine 2,3-dioxygenase in immune escape : regulation and therapeutic inhibition / Alexander J. Muller and George C. Prendergast -- Arginase, nitric oxide synthase, and novel inhibitors of L-arginine metabolism in immune modulation / Susanna Mandruzzato, Simone Mocellin, and Vincenzo Bronte

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