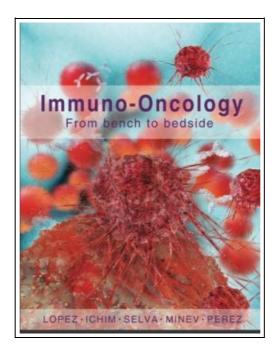
Immuno-Oncology: From Bench to Bedside



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Reviews

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Createspace, United States, 2015. Paperback. Book Condition: New. 214 x 149 mm. Language: English . Brand New Book ****** Print on Demand ******. The immune system offers the possibility of treating cancer and its metastasis without the toxicities of chemotherapy. Unfortunately, despite recent medical advances, overall survival of patients is still relatively dismal. Advances such development of Provenge, which is the first widely accepted immunotherapy of cancer have attracted media attention and interest, however survival advantage was only 3 months in double blind trials. In this book we take a multi-disciplinary approach to analyzing in a highly referenced and technical manner the various cellular, biochemical and immunological changes that occur in cancer patients. By categorizing what cancer does to the body, and how the body tries to fight the cancer, an overall picture is painted of various interventions and combination interventions that can be tried in order to maximize probability of patient improvement. Various conventional and unconventional approaches to cancer are described in this volume, including macrophage activation therapy, oxidative medicine, lymphokine activated killers, and non-specific immune stimulants. Significant effort was made by the authors to detail how various components of the immune system collaborate in the recognition of cancer cells, how cancer cells avoid immune attack, and means of derepressing immunity using chemical, cellular, and genetic approaches. Specific tumor immune evasion mechanisms that are described include: a) the tryptophan-catabolizing enzyme indolamine 2,3 deoxygenase (IDO), which selectively induces suppression of cytotoxic T cells through anergy, apoptosis, and T regulatory cell generation; b) IL-10, a cytokine produced by tumor cells, as well as tumor-associated macrophages, which induces generation of T regulatory cells; c) cancer derived exosomes, which act as nanoparticle vesicles, that directly induce apoptosis of tumor-reactive T cells, as well as



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