1. Record Nr. UNINA9910741324403321 Titolo Regulatory T Cells - New Insights / / Xuehui He, editor London:,:IntechOpen,, 2023 Pubbl/distr/stampa **ISBN** 1-80356-057-6 Descrizione fisica 1 online resource (104 pages) Disciplina 616.079 Soggetti **Immunology** T cells - Differentiation Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto 1. Type 1 Regulatory T Cells and Their Application in Cell Therapy -- 2. Function and Therapeutic Intervention of Regulatory T Cells in Immune Regulation -- 3. The Role of Immune Checkpoints in Cancer Progression -- 4. Pattern Recognition Receptor-Mediated Regulatory T Cell Functions in Diseases. In healthy humans, effector immune cells are activated by the presence Sommario/riassunto of pathogens. Various signaling pathways coordinate the growth and proliferation of the immune cells to fight the invading pathogen and keep the host healthy. A portion of white blood cells known as regulatory T cells (Treg) help to control the rapid proliferation of effector immune cells including effector T cells as well as antigenpresenting cells to make sure the inflammation is kept in check. When Treg cells are depleted or undergo loss of suppressive functionality. hyperinflammatory disease results. However, Treg depletion can also provoke and enhance tumor immunity. Therefore, targeting Treg cells is a promising approach for both autoimmune disease and cancer immunotherapy. To attenuate or enhance Treg-mediated immune suppression, it is necessary to find a specific molecular marker that can selectively and reliably differentiate between Trea and effector T cells. Further elucidation of the cellular and molecular processes underlying the development and function of regulatory immune cells will help to establish new strategies for the treatment and prevention of immune-

mediated disease.