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Titolo	Cancer Stem Cell Resistance to Targeted Therapy [[electronic resource] /] / edited by Cristina Maccalli, Matilde Todaro, Soldano Ferrone
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Nota di contenuto	Cancer Stem Cells: from birth to death -- A Cancer Stem Cell Perspective on Minimal Residual Disease in Solid Malignancies -- Cancer Stem Cells in Lung Cancer: Roots of Drug Resistance and Targets for Novel Therapeutic Strategies -- Overexpression of YY1 Regulates the Resistance of Cancer Stem Cells: Targeting YY1 -- Cancer Stem Cell Challenges in Melanoma Characterization and Treatment -- Harnessing the immune system to target cancer cells -- Targeting leukemia stem cells and the immunological bone marrow microenvironment -- Crosstalk Between Prostate Cancer Stem Cells and Immune Cells: Implications for Tumor Progression and Resistance to Immunotherapy -- Cancer stem cells: the players of immune evasion from immunotherapy -- Index.
Sommario/riassunto	This book represents an updated summary of the state of the art of the characterization of cancer stem cell/cancer initiating cell (CSC/CIC) properties. Experts provide an overview of the definition and biological properties of CSCs/CICs as well as the role of these cells in determining the resistance to standard and immune-based therapies. It also discusses limitations in the achievement of a definitive biological

characterization of CSCs/CICs due to their high extent of plasticity and heterogeneity that is also mutually driven by the interaction of these cells with the tumor microenvironment. The limitations in targeting CSCs/CICs with immunotherapy are also explained together with explorative combination approaches that could increase the susceptibility of these cells to the recognition by immune cells. This book is conceived for a broad audience, including students, teachers, scientific experts. The critical revision of available results in terms of immunological profile of CSCs/CICs and the efficacy in targeting these cells by immunological approaches, results in a comprehensive and up to date recapitulation of the field and provides interesting suggestions on how to focus future investigations in order to assess the role of CSCs/CICs as prognostic and predictive biomarkers of responsiveness to therapies for cancer patients.