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Nota di contenuto	Cancer stem cells: a definition / Jichao Qin, Dean G. Tang -- Mathematical modeling of stem cells related to cancer / Monika Joanna Piotrowska ... [et al.] -- Where do cancer stem cells come from? / Calin Stoicov and JeanMarie Houghton -- Mismatch repair deficiencies and origin of cancer stem cells / Minal Garg -- Cancer stem cells in hematological malignancies / Aniruddha J. Deshpande and Christian Buske -- Stem cells in solid tumors / Andres Matoso and Alexander Yu. Nikitin -- Cancer stem cells and metastasis / Benjamin Tiede and Yibin Kang -- Exercise, stem cells, and cancer / Emre Tunca, Karsten Kruger, Frank C. Mooren -- Human adult stem cells as targets for cancer stem cells: evolution: OCT-4 gene and cell to cell communication / James E. Trosko -- Targeting cancer stem cells / Thomas Dittmar and Kurt S. Zanker.
Sommario/riassunto	Today, cancer is the second most prevalent cause of death, after heart disease, in the industrialized world. Till now, and despite promising results in cancer research, the primary cause of death in cancer is still 1: the formation of metastases at distant organs sites, 2: the presence of cancer cells that are resistant to current cancer therapies (chemotherapy/radiation) and which cause cancer relapse. Within the past three years it became evident that also solid tumor tissues contain a kind of stem cells, so-called cancer cells. These cancer stem cells have been described as chemo-/radiation therapy resistant tumor

initating cells. The purpose of this book is to summarize the latest findings about the role of stem cells in cancer.
