

1. Record Nr.	UNINA9910300214703321
Titolo	Breast Cancer Biology for the Radiation Oncologist // edited by Jonathan Strauss, William Small, Gayle E. Woloschak
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-642-31220-9
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (94 p.)
Collana	Radiation Oncology
Disciplina	616.9944906
Soggetti	Radiotherapy Oncology Oncology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Biological subtypes of breast cancer -- Oncogene amplification and Herceptin -- Current clinical use of genetic profiling -- Biology of DCIS and progression to invasive disease -- Cancer Stem Cells and Radiotherapy -- Genetic basis of normal tissue radiosensitivity and late toxicity -- Genetic syndromes and radiotherapy in breast cancer -- Experimental therapies in breast cancer.
Sommario/riassunto	Breast Cancer Biology for the Radiation Oncologist is the first textbook of its kind devoted to describing the biological complexities of breast cancer in a way that is relevant to the radiation oncologist. Radiation Oncology has long treated breast cancer as a single biological entity, with all treatment decisions being based on clinical and pathologic risk factors. We are now beginning to understand that biological subtypes of breast cancer may have different risks of recurrence as well as different intrinsic sensitivity to radiotherapy. Multi-gene arrays that have for years been used to predict the risk of distant recurrence and the value of systemic chemotherapy may also have utility in predicting the risk of local recurrence. Additionally, the targeted agents used to treat breast cancer may interact with radiotherapy in ways that can be beneficial or undesirable. All of these emerging issues of central importance to radiation oncologists are extensively discussed in this book, and practical treatment recommendations based on available

clinical evidence are presented whenever possible.
