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Nota di contenuto	Part I An Integrated view of Breast Cancer Biology -- Fundamental pathways in breast cancer 1: signaling from the membrane -- Fundamental pathways in breast cancer 2: maintenance of genomic stability.-Fundamental pathways in breast cancer 3: estrogen biology -- Fundamental pathways in breast cancer 4: maintenance of epigenomic stability and the role of stem cells -- Breast cancer microenvironment and the metastatic process -- Mouse models of breast cancer -- Human mammary tumor virus proteins in human breast cancer cells -- Part II Epidemiology, Genetics and Prevention -- Epidemiology, life style and environment -- Genetic predisposition -- Chemoprevention -- Surgical prevention -- Part III Pathology: Standard and Molecular Diagnostics -- Premalignant lesions -- Prognostic and predictive role of genetic signatures -- Adding molecular information

to immunohistochemistry -- Special types of breast cancer and nonepithelial tumors -- Pathology after neoadjuvant treatments -- Breast cancer genomics -- Pathology report 2015 -- Part IV Imaging -- Radiological screening of breast cancer. Evolution -- Innovation of radiological means for breast cancer -- Nuclear medicine in the clinical management (ROLL, SNB and PET) -- One-step systemic staging for patients with breast cancer -- Imaging after breast surgery -- Integrated breast biopsy for best radiological diagnosis of breast cancer -- Part V Oncological Surgery -- Conservative surgery -- Conservative mastectomies -- Surgical treatment of reappearance of breast cancer -- Management of the axilla -- Management of intraepithelial disease -- Surgery after neoadjuvant therapies -- Surgery of primary tumor in stage IV breast cancers -- Local therapy for breast cancer in malignant lymphoma survivors -- Surgery of metastases -- Part VI Plastic and Reconstructive Surgery -- Oncoplastic surgery -- Delayed breast reconstruction -- Immediate breast reconstruction direct-to-implant -- Breast reconstruction with tissue expanders and definitive implant replacement -- Breast reconstruction with pedicled flaps -- Breast reconstruction with free flaps -- Contralateral breast management -- Fat grafting in breast reconstruction -- Breast reconstruction with biological and nonbiological meshes -- How to manage complications in breast reconstruction -- Part VII Medical Oncology -- Adjuvant systemic therapies by subtypes: guidelines -- Primary systemic therapies: guidelines -- Treatment of advanced disease: guidelines -- Endocrine therapies in the adjuvant and advanced disease settings -- Chemotherapy regimens in the adjuvant and advanced disease settings -- Anti-HER2 therapies in the adjuvant and advanced disease settings -- Systemic therapy with bisphosphonates and anti-RANK-L agents -- Systemic treatment for specific medical situations -- Part VIII Radiotherapy -- Conceptual basis and principles of radiation oncology -- Whole breast radiation following breast-conserving surgery in invasive cancer -- Whole breast radiation following breast-conserving surgery in noninvasive cancer -- Post-mastectomy radiotherapy -- Integration of radiotherapy with systemic therapies -- Partial breast irradiation -- Intraoperative radiotherapy ELIOT -- Radiotherapy for metastatic lesions -- Part IX Special Conditions Requiring Multidisciplinary Approaches -- Emergencies in breast cancer -- Breast cancer during pregnancy -- Fertility issues in patients with newly diagnosed breast cancer -- Sexual functions and breast cancer -- Male breast cancer -- Inflammatory breast cancer -- Treatment of CNS involvement -- Treatment of skeletal disease -- Follow-up of patients with breast cancer -- Part X Investigating New Drugs and Immunological Agents in Breast Cancer -- Targeting immune-checkpoint -- Targeting PIK3CA/AKT/mTOR -- Targeting genome instability and DNA repair -- Targeting CDK4/6 pathway -- Targeting FGFR pathway -- Integrating next generation sequencing data in trial design -- Part XI Investigational and Miscellaneous Approaches -- Lifestyle and breast cancer -- Psychological support -- HIFU and radiofrequency as alternatives to surgery -- Hyperthermia with RT and with systemic therapies -- Electro-chemotherapy -- Circulating miRNA in early diagnosis -- Relevance of stem cells -- Part XII Biostatistics and Bioinformatics -- Subgroup analyses and information from clinical trials on breast cancer -- The methodology of meta analyses and its potential contribution to patient care -- Modern biostatistics for accelerated data acquisition for new drugs -- Bioinformatics for clinical use in breast cancer -- Efficacy endpoints in breast cancer studies.

innovative approaches to its management. Current and emerging perspectives on genetics, biology, and prevention are first discussed in depth, and individual sections are then devoted to pathology, imaging, oncological surgery, plastic and reconstructive surgery, medical oncology, and radiotherapy. In each case the focus is on the most recent progress and/or state of the art therapies and techniques. Further topics to receive detailed consideration include particular conditions requiring multidisciplinary approaches, the investigation of new drugs and immunological agents, lifestyle and psychological aspects, and biostatistics and informatics. The book will be an excellent reference for practitioners, interns and residents in medical oncology, oncologic surgery, radiotherapy, pathology, and human genetics, researchers, and advanced medical students.
