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Descrizione fisica	1 online resource (466 p.)
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Soggetti	Neurosciences Oncology Molecular biology Cancer - Research Molecular Medicine Cancer Research
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	The inner space: Molecular mechanisms driving the malignant phenotype of glioma cells: Cancer stem cells and glioblastoma -- Epigenetic changes in gliomas -- Signaling cascades and transcription factors driving the malignant phenotype of glioma cells -- MicroRNAs in molecular pathology of gliomas -- Autophagy in glioma cells. - Partnership: Glioma cell partners and the tumor microenvironment: Auto- and paracrine mediators in the glioma microenvironment -- Angiogenesis in gliomas -- Immune response – gliomas-associated immunosuppression -- Microglia in gliomas: friend or foe? Glioma and Extracellular Matrix -- Glioblastomas and the special role of adhesion molecules in their invasion -- Glioma-associated proteases -- Interactions: Concepts and tools in glioma research:- Experimental models of glioma -- Models to study glioma cell invasion.
Sommario/riassunto	Gliomas are fatal diseases, but also represent good models for

tumor research with the aim to eventually discover new and appropriate therapeutics against this disease. Glioma experimental research models are of help to investigate tumorigenesis (tumor stem cell theory versus "classical" opinions), tumor angiogenesis (since they are highly vascularized) and tumor invasion (since they grow without limits). In addition, they have a very special microenvironment (the brain) and limited tumor stroma cells (mainly microglia and endothelial cells). This book addresses the molecular mechanisms of the various tumor stages, describes the interaction with the tumor microenvironment and furthermore depicts experimental models for Glioma research and future therapeutic concepts. The book is composed and written for Scientists and Medical Doctors in Oncology, Neurosciences and Molecular Biology.
