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A. Sedo, R. Mentlein (Eds.)

Glioma Cell Biology

- ▶ Covers genetic, epigenetic, cell- and molecular biology of glioma cells
- ▶ Depicts the cell-cell interaction of glioma cells with their environment
- ▶ Presents experimental research models for glioma research

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



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