

Tumors of the central nervous system : astrocytoma, medulloblastoma, retinoblastoma, chordoma, craniopharyngioma, oligodendroglioma, and ependymoma

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Abstrak

Now, the eighth in the set returns to the topic of brain tumors, dealing with seven distinct types, astrocytoma, medulloblastoma, retinoblastoma, chordoma, craniopharyngioma, oligodendroglioma, and ependymoma. After updating the classification of medulloblastoma the volume provides an overview of ependymoma as well as describing the delineation of prognosis based on the genetic aberrations of the latter patients. The material offers key insights into the molecular pathways involved in tumor biology, such as the role of E-cadherin gene instability, carbonic anhydrase II, urokinase plasminogen activator, and Wnt signaling in meningioma. Contributors explain the genetic and clinical features associated with recurring meningioma, including the role played by erythropoietin receptor, and examine the way in which OTX2 transcription factor functions as an oncogene in medulloblastoma.