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Tumors of the Central Nervous System

By Hayat, M. A.

Book Condition: New. Publisher/Verlag: Springer Netherlands | As in the case of its eleven predecessors in the series *Tumors of the Central Nervous System*, this volume is distinguished for its thorough approach, its roster of 92 distinguished contributors representing 11 different countries and its detailed examination of leading-edge technology and methods. *Volume 12: Molecular Mechanisms, Children's Cancer, Treatments, and Radiosurgery* offers a comprehensive review of the diagnosis, therapy and prognosis of brain and spinal cord tumors. Coverage extends to a large number of tumor types, including neuroblastoma, medulloblastoma, meningioma and chordoma. Molecular profiling of brain tumors to select appropriate therapy in clinical trials of brain tumors is discussed in detail, as is the classification/diagnosis of brain tumors based on function analysis. CDK6 as the molecular regulator of neuronal differentiation in the adult brain, and the role of aquaporins in human brain tumor growth are explained. Discussion also includes tumors affecting children, including neuroblastoma and medulloblastoma. A full chapter is devoted to the role of molecular genetic alterations in medulloblastoma, and another examines survival differences between children and adults with medulloblastoma. The use of various types of imaging methods to diagnose brain tumors is explained. In-depth discussion of treatment options includes...


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