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Nota di contenuto	1. Introduction: From the Inhibition of Dogmas to the Concept of Personalized Management in Diffuse Low-Grade Gliomas -- 2. Epidemiology of Diffuse Low-Grade Gliomas -- 3. Histological Classification -- 4. Is Gliomatosis Cerebri a Diffuse Low-Grade Glioma? -- 5. Contribution of Molecular Biology to the classification of Low-Grade Diffuse Gliomas -- 6. Cellular origin of Grade II Gliomas -- 7. Deciphering the Molecular and Cellular Basis for Dissemination of Diffuse Low-Grade Gliomas -- 8. The molecular biology of Diffuse Low-Grade Gliomas -- 9. Proteomic Studies in Low-Grade Gliomas: What They Have Informed About Pathophysiology? -- 10. Human Low-Grade Glioma Cultures -- 11. Animal Models for Low-Grade Gliomas -- 12. Clinical Presentation in Diffuse Low-Grade Gliomas -- 13. Epilepsy in Diffuse Low-Grade Gliomas -- 14. Quality of Life in Low-Grade Gliomas -- 15. Metabolic-Oncological MR Imaging of Diffuse Low-Grade Glioma: A Dynamic Approach -- 16. Positron-Emission Tomography in Diffuse Low-Grade Gliomas -- 17. Dynamics of Diffuse Low-Grade Gliomas and Clinical Implications -- 18. Natural History and Spontaneous Prognostic Factors -- 19. Language and Other Cognitive Evaluations -- 20. Functional MR and Diffusion MR Imaging in Diffuse Low-Grade Gliomas -- 21. Magnetoencephalography, Functional Connectivity and Neural Network Topology in Diffuse Low-Grade Gliomas -- 22. Interactions Between Diffuse Low-Grade Glioma and

Brain Plasticity -- 23. Surgery for Diffuse Low-Grade Gliomas: Oncological Considerations -- 24. Surgery for Diffuse Low-Grade Gliomas: Functional Considerations -- 25. Chemotherapy for Diffuse Low-Grade Gliomas -- 26. Radiation Therapy for the Treatment of Diffuse Low-Grade Gliomas -- 27. New Individualized Strategies in Diffuse Low-Grade Gliomas -- 28. Biomathematical Modeling of Diffuse Low-Grade Glioma Behavior -- 29. Towards the Definition of New Endpoints -- 30. Functional Rehabilitation in Patients with Diffuse Low-Grade Glioma -- 31. Early Detection and Management of Incidental Diffuse Low-Grade Gliomas (IDLGG): Towards a "Prophylactic Oncological Neurosurgery" -- 32. The Origins of Diffuse Low-Grade Gliomas: "Functional Theory" Versus "Molecular Theory".

Sommario/riassunto

The biology, behavior and management of diffuse low-grade gliomas (DLGG) in adults have been matters of controversy for many decades. However, recent technical and conceptual advances in genetics, imaging and treatments have paved the way towards individualized management. In addition, advancing knowledge of brain processing means that it is possible to take into consideration the interaction between the disease (low-grade glioma) and the host (the brain) and thus to modulate the therapeutic strategies with the goal to increase the median survival as well as to improve the quality of life. Diffuse Low-Grade Gliomas in Adults: Natural History, Interaction with the Brain, and New Individualized Therapeutic Strategies presents the latest research pertaining to the diagnosis, therapy and management of diffuse low-grade gliomas (DLGG) in adults, with a particular focus on the path towards individualized therapy for this kind of tumor. Recent research on the natural history of DLGGs and their interaction with the brain has led to new diagnostic and therapeutic strategies which increase survival and quality of life of the patient, and these methods are described in this book. This book uniquely focuses on addressing diffuse low-grade gliomas in adults and is a valuable resource for medical oncologists, neuro-oncologists and neurologists.
