Translational Immunotherapy of Brain Tumors

Description: Translational Immunotherapy of Brain Tumors gives researchers and practitioners an up-to-date and comprehensive overview of the field. Chapters include adoptive immunotherapy, immunosuppression, CAR therapy of brain tumors, and dendritic cell therapy for brain tumors.

Very few agents have been shown to be efficacious in the treatment of malignant gliomas. Recently, there have been a number of studies demonstrating the potential success of immunotherapy for brain tumors. Immunotherapeutics are becoming the most frequent drugs to be used in cancer therapy. These new breakthroughs, now approved by the FDA, are a part of multiple phase III international trials and ongoing research in malignant glioma, meaning that the information in this cutting-edge book will be of great importance to practitioners and researchers alike.

- Comprehensive overview, providing an update on immunology, translational immunotherapy, and clinical trials relating to malignant gliomas
- Edited by a prominent neurosurgeon with contributions by leading researchers in the field
- Ideal resource for researchers and practitioners interested in learning about mechanisms that use the immune system to treat brain tumors

Contents:

Section I. Immunological Features of Brain Tumors
1. An introduction to immunotherapy in the treatment in brain tumors
2. Immune complement of patients with brain tumors
3. The role of regulatory T cells and Indoleamine-2, 3-dioxygenase in brain tumor immunosuppression
4. The role of myeloid-derived suppressor cells in immunosuppression in brain tumors
5. Tumor-specific mutations in gliomas and their implications for immunotherapy

Section II: Studying Brain Tumor Immunotherapy
6. Preclinical immunotherapeutic animal models for brain tumors
7. Imaging studies in immunotherapy
8. Immunotherapy clinical trials in neuro-oncology

Section III: Experimental Brain Tumor Immunotherapies
9. Peptide-specific vaccines
10. Immunotoxin therapy for brain tumors
11. Checkpoint blockade immunotherapy for GBM: Progress and challenges
12. Dendritic cell therapy for brain tumors
13. Adoptive immunotherapy against brain tumors
14. CAR therapy of brain tumors

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