1. Record Nr. UNINA9910349449803321

Titolo	Neuroimmune Diseases [[electronic resource]] : From Cells to the Living Brain / / edited by Hiroshi Mitoma, Mario Manto
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-19515-5
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (819 pages)
Collana	Contemporary Clinical Neuroscience, , 2627-535X
Disciplina	616.8
Soggetti	Neurosciences Neurology Neurology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Overview of mechanisms underlying neuroimmune diseases -- 2. Roles of interleukines in neurological autoimmunity -- 3. Roles of regulatory T cells in neurological autoimmunity -- 4.Immune tolerance triggering neurological autoimmunity -- 5. Disruption of blood-brain barrier and blood-nerve barrier: a key step in development of immune-mediated neurological diseases -- 6. Pathological mechanisms underlying production of autoantibodies -- 7. Significance of autoantibodies: cause or result? -- 8. Multiple actions of microglia -- 9. Autoimmune astropathy -- 10. Genetic factors indicating susceptibility to neurological diseases -- 11. General principles of immunotherapy -- 12. Multiple sclerosis -- 13. Neuromyelitis optica: Diagnosis and therapies -- 14. Atypical inflammatory demyelinating syndrome -- 15. Central nervous system vasculitis -- 16. Neuro-Beçhet and Sjgren disease -- 17. Immune-mediated cortical encephalopathy (Limbic encephalitis) -- 18. Immune-mediated cerebellar ataxias -- 19. Stiff-Person syndrome -- 20. Guillain-Barré syndrome -- 21. Chronic inflammatory demyelinating polyneuropathy: Diagnosis and therapy -- 22. Immune-mediated disorders of neuro-muscular junctions -- 23. Myositis -- 24. Infection-related immune diseases -- 25. Paraneoplastic neurological syndromes; Diagnosis and Therapies.

Sommario/riassunto

A translational overview of neuroimmune diseases for neuroscientists and clinicians that clarifies the pathological mechanisms underlying neuroimmune diseases and builds a comprehensive bridge between the latest research findings and their clinical implications in daily practice. The material is presented in two steps. The first section comprises a review of the pathogenic actions of immune cells in brain diseases. Here the authors discuss the mechanisms through which immune cells disrupt the functions of nerve cells. The second section explores the ways in which the brain becomes dysfunctional due to impaired nerve cell function. Based on pathogenesis, diagnostic and therapeutic strategies are discussed for each clinical category. The book will be invaluable for use in clinical practice of neuroimmune diseases.