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Traumatic Brain Injury; Traumatic Brain Injury is a Chronic Debilitating Condition; State of Genomics Research on Traumatic Brain Injury; Goals; Candidate Gene Approaches; APOE; COMT; BDNF; Candidate Gene Targets; Interleukins; Circadian rhythm-regulated genes; Melatonin and Its Receptors, MTNR1A and MTNR1B ; Going Beyond Candidate Gene Association Studies; Bioinformatics In GWAS; Decision Trees and Random Forests; Multifactor Dimensionality Reduction Role of Epigenetics in Complex DiseasesMicroRNAs in Traumatic Brain Injury; Future Directions; Define and Measure Phenotypes; The Future Of Gwas; New Approaches for Testing the Common Disease Rare Variant Hypothesis: Whole Genome Sequencing; Conclusions; Glossary; References ; Section 2: Pathology and Mechanisms of Traumatic Brain injury; Chapter 4: The Neuropathology of Traumatic Brain Injury; Introduction; Severity of Injury; Focal Versus Diffuse Injury; Primary Versus Secondary Injury; Acute moderate-severe Traumatic Brain Injury; Focal Injuries; Skull Fractures ; Contusion and Laceration Hemorrhage and Hematoma Diffuse Injuries; Diffuse Vascular Injury ; Diffuse Brain Swelling ; Diffuse Axonal Injury ; Excitotoxicity and Oxidative Stress ; Secondary Effects of moderate-severe Traumatic Brain Injury; Vascular Injury ; Hypoxic-Ischemic Injury ; Hypometabolism ; Neuroinflammation ; Edema and Herniation ; Acute Mild Traumatic Brain Injury; Concussive Injury; Blast Injury; Juvenile Head Trauma Syndrome and Second Impact Syndrome; Chronic Effects of Traumatic Brain Injury; Cognitive Deficits and Mood Disturbances; Alzheimer's Disease; Parkinson's Disease Amyotrophic Lateral Sclerosis

Sommario/riassunto

The Handbook of Clinical Neurology volume on traumatic brain injury (TBI) provides the reader with an updated review of emerging approaches to traumatic brain injury (TBI) research, clinical management and rehabilitation of the traumatic brain injury patient. Chapters in this volume range from epidemiology and pathological mechanisms of injury, and neuroprotection to long-term outcomes with a strong emphasis on current neurobiological approaches to describing the consequences and mechanisms of recovery from TBI. The book presents contemporary investigations on blast injury and chronic traumat
