

Neuronal Substrates Of Sleep And Epilepsy

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The first monograph on sleep and epilepsy at the cellular and intra-cellular levels. Different states of vigilance and various paroxysmal disorders that occur during slow-wave sleep can have the same neural bases. Conventional wisdom holds that sleep is a resting state of the brain, with negligible activity of cortical neurons. Here, the author brings new evidence favoring the idea that during this behavioral state memory traces acquired during waking are consolidated. The author focuses on the coalescence of different sleep rhythms in interacting corticothalamic networks and on three types of paroxysmal disorders, namely spike-wave seizures as in absence epilepsy, Lennox-Gastaut seizures, and temporal-lobe epilepsy. Many physiological correlates of waking and sleep states as well as diverse types of epileptic seizures are also discussed. The book has copious illustrations with examples from in vivo, in vitro and 'in computo' studies, the majority coming from the author's own laboratory. Neuronal Substrates of Sleep and Epilepsy is essential reading for neuroscientists and clinical researchers. EAN/ISBN : 9780511030581 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Steriade, Mircea

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