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Astrocytes and Epilepsy (Hardback)

By Jacqueline A. Hubbard, Devin K. Binder

Elsevier Science Publishing Co Inc, United States, 2016.

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English . Brand New Book. Epilepsy is a devastating group of

neurological disorders characterized by periodic and

unpredictable seizure activity in the brain. There is a critical

need for new drugs and approaches given that at least one-

third of all epilepsy patients are not made free of seizures by

existing medications and become medically refractory . Much

of epilepsy research has focused on neuronal therapeutic

targets, but current antiepileptic drugs often cause severe

cognitive, developmental, and behavioral side effects. Recent

findings indicate a critical contribution of astrocytes, star-

shaped glial cells in the brain, to neuronal and network

excitability and seizure activity. Furthermore, many important

cellular and molecular changes occur in astrocytes in epileptic

tissue in both humans and animal models of epilepsy. The goal

of Astrocytes and Epilepsy is to comprehensively review

exciting findings linking changes in astrocytes to functional

changes responsible for epilepsy for the first time in book

format. These insights into astrocyte contribution to seizure

susceptibility indicate that astrocytes may represent an

important new therapeutic target in the control of epilepsy.

Astrocytes and Epilepsy includes background explanatory text

on astrocyte...



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