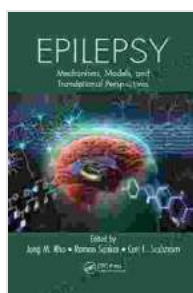


Epilepsy Mechanisms Models And Translational Perspectives: A Comprehensive Guide

Epilepsy is a neurological disorder characterized by recurrent seizures, which are sudden, uncontrolled bursts of electrical activity in the brain. It affects millions of people worldwide, and can have a significant impact on their quality of life.



Epilepsy: Mechanisms, Models, and Translational Perspectives by Anne Talmage Cooksey

★★★★★ 5 out of 5

Language : English

File size : 34202 KB

Screen Reader : Supported

Print length : 684 pages

X-Ray for textbooks : Enabled



This book provides a comprehensive overview of the mechanisms, models, and translational perspectives of epilepsy. It is written by leading experts in the field, and offers the latest research and advancements in the understanding and treatment of this disorder.

Mechanisms of Epilepsy

The exact mechanisms of epilepsy are not fully understood, but it is believed to be caused by a disruption in the normal electrical activity of the brain. This disruption can be caused by a variety of factors, including:

* Head injury * Stroke * Brain tumor * Infection * Genetic disorders
Downloads * Developmental abnormalities

Epileptic seizures can vary in type and severity. Some common types of seizures include:

* **Focal seizures:** These seizures originate in a specific area of the brain and can cause a variety of symptoms, such as muscle twitching, sensory changes, or loss of consciousness. * **Generalized seizures:** These seizures affect the entire brain and can cause a loss of consciousness, convulsions, and incontinence.

Models of Epilepsy

Animal models are often used to study epilepsy and develop new treatments. These models can provide valuable insights into the mechanisms of epilepsy and the effects of different treatments.

Common models of epilepsy include:

* **Electrical stimulation models:** These models involve stimulating the brain with electricity to induce seizures. * **Chemical models:** These models involve administering chemicals to the brain to induce seizures. * **Genetic models:** These models involve using animals that have been genetically engineered to develop epilepsy.

Translational Perspectives

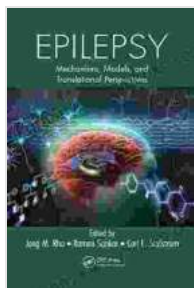
Translational research is the process of moving basic research findings into clinical applications. This is a critical step in the development of new treatments for epilepsy.

Translational perspectives in epilepsy include:

- * Identifying new targets for drug therapy
- * Developing new drug delivery systems
- * Designing new surgical techniques
- * Developing new non-invasive treatments

Epilepsy is a complex neurological disorder that can have a significant impact on the lives of those who suffer from it. This book provides a comprehensive overview of the mechanisms, models, and translational perspectives of epilepsy, offering insights into the latest research and advancements in the field.

This book is an essential resource for neurologists, neuroscientists, and other healthcare professionals who are involved in the care of patients with epilepsy. It is also a valuable resource for patients and their families who are seeking to learn more about this disorder.



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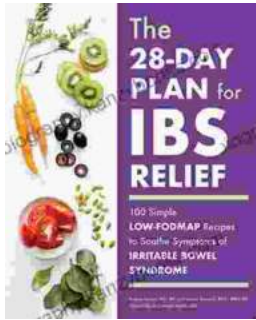
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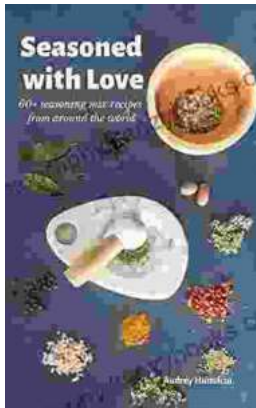
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