



Recent Advances in Pathophysiology and Therapeutic Approaches in Epilepsy

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Message from the Guest Editors

Epilepsy is a common neurological disorder affecting about 70 million population around the world. The existing treatment options are limited to only relieving symptoms, but do not alter the progression. Furthermore, more than 30% of patients using existing antiseizure drugs are refractory to epilepsy and long-term use of these drugs can cause a plethora of adverse effects.

Investigating biomarkers and underlying mechanisms of epileptogenesis may address the detailed pathophysiology for the progression and development of epilepsy in patients. The identification of drugs and therapies to prevent epilepsy is critical, yet is unmet in current pharmacological approaches. Therefore, basic studies aiming at testing the potential antiepileptic properties of new molecules are greatly needed.

The main goal of the Special Issue is to present novel approaches from the clinical and basic research perspective about the development and progression of epilepsy as well as to address disease-modifying strategies. Additionally, we aim to explore new pharmacological targets and strategies, so we can help the development of new therapeutic strategies to prevent epilepsy and halt its progression.





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