Aims & Scope:

Epilepsy is a relatively common neurologic disorder in children. Although conventional anti-epileptic drugs (AEDs) control the disorder in the majority of patients, they fail to provide therapeutic benefit in 20-25% of patients. In addition, the serious adverse effects of AEDs on brain development, particularly on cognitive function, have provoked further research on non-AED management modalities. A number of previous studies have investigated alternative treatments for epilepsy, including the use of melatonin, a ketogenic diet, vitamins or biofeedback. Recently, autophagy-mediated apoptosis has been intensively studied in recent years and may be a potential target for developing a novel therapy for seizure damage. This Research Topic will focus on the advances of these nontraditional anti-epileptic methods and the underlying molecular signals. The Topic Editors welcome contributions in the form of original research papers, technical reports and reviews.

Topics to be covered (main bioactive component):

1. Non-AED management modalities: melatonin, a ketogenic diet, vitamins or biofeedback and etc.
2. Autophagy signaling as a potential target for the inhibition of epileptogenesis.
Keywords:

Epileptogenesis, ketogenic diet, melatonin, autophagy, anti-epileptic drugs, epilepsy

Schedule:

July 2018