



## Neuronal, Glial, and Immune Changes in Models of Epilepsy and Epileptogenesis

Guest Editor:

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Deadline for manuscript submissions:

**closed (31 May 2020)**

### Message from the Guest Editor

Epilepsy is defined as the recurrent appearance of seizures and these seizures can be highly variable among individuals. Some types of epilepsy have predisposing, underlying factors, whereas others can be the result of injury or insult. Common themes in the development of epilepsy are changes to cellular, genetic, immune, anatomical, molecular and physiological mechanisms, that ultimately result in the appearance of seizures and/or an increase in seizure susceptibility. Neurons and glial cells make up the fundamental cellular components of the central nervous system. Dysfunction of these cell types, and the circuits to which they contribute, can be pro-epileptogenic. A growing body of evidence also implicates inflammatory and neuroinflammatory mechanisms, as well as genetic and epigenetic factors in the development of epilepsy. Here, we seek manuscripts and review articles that pertain to cellular and immune contributions to seizures, the epileptogenic progression and the development of epilepsy. Studies that incorporate wide-ranging models, including injury models, are encouraged.





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