

Special Issue

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

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.

Guest Editor

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closed (31 May 2020)



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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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