



The Role of Astrocytes in Human Diseases

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Message from the Guest Editor

Astrocytes are a prominent cellular component of the human brain that have diverse subtypes and multiple roles in healthy brain function. Any changes to gene expression, physiology, and morphology of astrocytes have the potential to produce human disease. Astrocyte involvement has been implicated in almost every neurological condition and even some human disorders that most prominently affect other organ systems. Rapid development of new models of human disease has created the need for research and communication of new concepts that connect astrocytes to human health disorders. Over the past five years, new microscopy technology, genome engineering methods, vast new “omics” data collections, tissue engineering, and induced pluripotent stem cell technology have revealed completely novel mechanisms by which astrocytes might support healthy brain function or contribute to disease initiation or progression. For the Special Issue proposed for “The Role of Astrocytes in Human Diseases”, we seek expert reviews that communicate the latest information on astrocytes and health and original research articles about astrocytes with implications for human disease.





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Message from the Editor-in-Chief

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