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Long Noncoding RNAs in Brain Diseases

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Message from the Guest Editor

Long non-coding RNAs (lncRNAs) are fascinating molecules that shape how our brains work. They do not make proteins, but they control how genes are turned on and off, how neurons grow and connect, and how the brain adapts to changes. When lncRNAs go wrong, they can cause many different brain diseases. For example, in Alzheimer's, Parkinson's, Huntington's, and ALS, lncRNAs affect the buildup of toxic proteins that damage brain cells. In schizophrenia, bipolar disorder, and depression, lncRNAs influence how neurons communicate and respond to stress. In brain cancers such as glioblastoma and medulloblastoma, lncRNAs help tumor cells grow, spread, and resist drugs. In autism and intellectual disabilities, lncRNAs affect how the brain develops and learns. By studying lncRNAs, we can learn more about these conditions and find new ways to diagnose and treat them. We can also try to change the activity of specific lncRNAs that are involved in disease processes and see if we can improve the outcomes. However, there is still much to discover about how lncRNAs work and how to target them safely and effectively.

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Message from the Editor-in-Chief

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