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Multi-Omics for the Understanding of Brain Diseases

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Message from the Guest Editors

Omics technologies such as proteomics, genomics, and metabolomics are widely applied for the identification and characterization of new molecular signatures. However, molecular profiling that makes it possible to understand neurodegenerative diseases has been relatively insufficient. Brain diseases such as neurodegenerative diseases and emotional disorders need integrative understanding which draws a more reliable hypothesis for pathology, which can be accomplished via an in-depth study of molecular information. Recently, multi-omics technologies have been eagerly applied to diverse diseases. Because this includes multiple molecular profiling, metadata, and big data processing with informatics and computer science, it is possible to provide new macroscopic as well as microscopic insight to understand diseases. This issue will introduce recent technological advances of multi-omics and the application of omics technology to brain diseases.



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Special issue



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