



## Current Imaging Trends of PET, SPECT, and Advanced MRI in Gliomas and Neurodegenerative Disorders

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### Message from the Guest Editor

Over the years, neuroimaging has evolved into an indispensable tool in the clinical workup of patients with diseases of the central nervous system. Magnetic resonance imaging (MRI), positron emission tomography (PET), and single-photon emission computed tomography (SPECT) are shedding light on the in vivo comprehension of these disorders.

Gliomas and neurodegenerative diseases require the input of multiple imaging disciplines for their diagnosis and understanding. Because their nature extends beyond gross structural patterns, down to the cellular and molecular level, neuroimaging biomarkers aim to provide critical non-invasive insight into their underlying biology. This is useful for patients in a clinical setting but can also be used for the targeted recruitment to clinical trials. This Special Issue of *Diagnostics* overviews the principles, strong points and limitations, current clinical applications, and future perspectives of advanced MRI, PET, and SPECT in the diagnosis and management of neurodegenerative diseases and gliomas.





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