

Special Issue

Integrative Computational Neuropathology: Multimodal Approaches for Precision Diagnosis

Message from the Guest Editor

The study of neuropathology spans all types of neurological disorders. The recent evolution from tissue histopathology methods to incorporate highly multiplexed DNA, RNA, and protein detection methods, as well as advances in computational methods, has expanded the volume of information available for diagnosis. The application of computation pipelines to high-resolution or high-complexity molecular pathology data allows for advanced subtyping of disease, which could streamline clinical trials and provide phenotyping strategies for precision medicine. Artificial intelligence and other algorithmic approaches are already transforming the interpretation of this high-complexity data. This Special Issue seeks to highlight research that bridges advanced analytical methods with clinical neuropathology. Topics of interest include:

- AI and machine learning applications for neuroimaging and histopathological image analysis;
- Automated and multimodal diagnostic systems for classification of brain and spinal cord disorders;
- Computational integration of molecular, imaging, and clinical data for disease subtyping;
- Validation and translational studies of novel algorithmic strategies in neuropathology.

Guest Editor

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