



## Mass Spectrometry Imaging in Neuroscience

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### Message from the Guest Editor

Mass spectrometry imaging (MSI) has become a valuable chemical imaging tool for biological research, offering high chemical specificity, high sensitivity, and multiplexed detection of multiple biomolecules that localize within cells and tissues at cellular and subcellular spatial resolution.

Over recent decades, MSI has been increasingly applied to study molecular organization and the functional relations of the underlying biological processes in neuronal cells and neurological diseases. The spatial localization of biomolecules such as lipids, proteins, and metabolites, etc. can now be mapped and related to their neurological functions. Cellular and subcellular molecular turnover, reflecting the synthesis, metabolism and degradation in neurons and the brain at a certain stage of neuronal development, maturation, or pathology, is now being added to this knowledge base. Biomarkers distributed within specific regions of cells and tissues provide valuable insights into cellular pathways of neurodegenerative diseases.

We are pleased to invite you to contribute an original article or review focusing on any aspects of neurobiology using MSI.





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