

## Brain imaging

Applied neuroimaging is a relentlessly developing field of radiology with both clinical and research applications. Recent years have seen an explosion in high-impact neuroscience papers capitalising on advanced neuroimaging techniques to test study hypotheses. The quantitative pipelines of a range of open-source and commercial software enable the meticulous evaluation of physiological and pathological processes and have been implemented across a spectrum of neurological and psychiatric conditions. Despite the differences in specific imaging techniques, the shared inspiration of applied imaging studies is the detection, characterisation and critical interpretation of subtle pathological changes in vivo complementing clinical observations, supporting prevailing views on disease mechanisms and often tracking changes longitudinally. Seminal papers in recent years have captured presymptomatic changes in mutation carriers, revealed propagation patterns in neurodegenerative conditions, confirmed treatment effects in clinical trials and invariably contributed novel academic insights. The objective of this special issue is to attract manuscripts from diverse neurological and psychiatric conditions to showcase the potential of applied imaging in research and clinical setting.

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