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Better neural images by combining ultrahigh field strength MRI with innovative MRI sequences

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Better MRI scanning technologies and protocols can provide insights into neurological disorders. In this review, we describe the basic concepts of MRI and, in the process, we convey to the reader the relevance of MRI as a high-resolution imaging modality of tissue structure and metabolism. We outline the main parameters for improving MRI resolution and sensitivity for ...

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Morphometry of the middle cerebral artery (sylvian artery) on MRI: Contribution to cerebral endovascular surgery

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Introduction: The Middle Cerebral Artery (MCA), from its old nomenclature “sylvian artery”, is a terminal branch of the Internal Carotid Artery (ICA) of which it constitutes the main extension. It represents a fundamental branch of the brain vasculature. The objective of this work was to provide Magnetic Resonance Imaging (MRI) morphometric data of the MCA to inform t ...

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