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RS-fMRI as a tool for Schizophrenia: Identification of affected brain regions

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Neuroscience's advanced tools, such as molecular genetics, structural and functional neuroimaging, animal models, and experimental tasks that mimic real-world behaviors in the human study, have given crucial insights into normal functioning and neurobehavioral disorders. The most widely used technology in neuroscience is functional magnetic resonance imaging (fMRI). The contributions of functional magnetic resonance imaging (fMRI) and two related methods, resting-state fMRI (rs-fMRI) and task-based fMRI, to diagnosing and treating neurological and psychiatric illnesses are reviewed in this paper. This study postulates that fMRI's significant impact on these preventative efforts has yet to be addressed appropriately, investigates novel methods in which the technology may be used to that purpose, and showcases a few of the work being done by investigators at the forefront of the endeavor. Despite the fact that this type of assumption is poor, recently emerging machine learning approaches can define and enhance reverse inferences.

Biography

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