Redefining MRI:
From Image to Insight

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기능자기공명영상 (Functional MRI)

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Advanced Preclinical fMRI of the Brain

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Functional magnetic resonance imaging (fMRI), which relies on blood oxygen level–dependent (BOLD) contrast, is broadly employed to investigate brain function. By leveraging advances in biotechnology, molecular biology, and genetics, preclinical fMRI enables rigorous experimental testing of causal hypotheses that cannot be easily investigated in human studies. Here, we review recent progress in MRI hardware development, provide recommendations for BOLD fMRI protocol optimization, and discuss recent applications.

Keywords: *fMRI, Preclinical, Review*