

A Multivariate Autoregressive Model to Describe Whole-Brain Bold fMRI Dynamics

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Presentation Abstract Summary We show here that a simple multivariate autoregressive (MVAR) model of the signal dynamics in whole brain resting state BOLD fMRI can capture over 50% of the total variance in parcellated data across subjects, robustly discovers well known networks, provides information regarding the nature of the global signal, and provides estimates of connectivity that are more sparse than those measured using conventional correlation analysis.

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