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Investigating Executive Networks in Language Comprehension: A Foundation for Digital Twin Applications in Cognitive Neuroscience

Our sham-controlled TMS study causally investigated the Angular Gyrus (AG) and DLPFC's roles in language comprehension and particularly examines how their contributions change under varying cognitive loads via dual-task reading/n-back. This detailed empirical data could serve as a valuable foundation for cognitive Digital Twins in the future, enabling simulation of individual responses and prediction of brain stimulation effects for personalized interventions.

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