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Network neuroscience is a rapidly growing field that is providing considerable insight into human structural connectivity, functional connectivity while at rest, changes in functional networks over time (dynamics), and how these properties differ in clinical populations.

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Cognitive network neuroscience (C = Cognitive state). A schematic representation of functional brain networks during cognition. Cognitive modules are indicated by collections of

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identically colored nodes organized into network modules. The organization of brain networks varies across cognitive states and time.

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George R. Mangun is Director of the Center for Mind and Brain, Distinguished Professor of Psychology and Neurology, and Director of the Kavli Summer Institute in Cognitive Neuroscience at the University of California, Davis, and coeditor of the fifth edition of *The Cognitive Neurosciences* (MIT Press).

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Some of the main lines of research in this direction involved whole-brain network similarity analyses on the intrinsic and task-evoked network architecture of human connectome (Cole et

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al., 2014); the mapping of cortical hubs and brain region for adaptive task control (so-called cognitive control network (Cole et al., 2013; Cole & Schneider, 2007); and the investigation of activity flow from ...

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Convergent results from multimodal neuroimaging studies (de Pasquale, Penna, Sporns, Romani, & Corbetta, 2016; Kitzbichler, Henson, Smith, Nathan, & Bullmore, 2011; Shine et al., 2016; Vatansever, Menon, Manktelow, Sahakian, & Stamatakis, 2015) have demonstrated that brain activity during cognitive tasks reflects a balance between regional segregation and network-level integration (Shine ...

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memory.

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