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Metacognition and the Frontal Lobes

Abstract:

Metacognition, or “knowing about knowing,” includes skills such as self-monitoring, self-awareness, and self-evaluation. There is converging evidence that the frontal lobes play a critical role in these skills, and some data are presented which further support this idea. In the present data, frontal lobe functioning is shown to be related to self-evaluation in terms of confidence ratings on a face recognition task in patients with traumatic brain injury. The findings are discussed in the context of theories of self and consciousness, including Dehaene and colleagues’ global neuronal workspace.