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- Reichenberg A, Yirmiya R, Schuld A, et al.
[Cytokine-associated emotional and cognitive disturbances in humans](#)
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- Barbas H
[Connections underlying the synthesis of cognition, memory, and emotion in primate prefrontal cortices](#)
 BRAIN RES BULL 52 (5): 319-330 JUL 15 2000
- Simpson JR, Snyder AZ, Gusnard DA, et al.
[Emotion-induced changes in human medial prefrontal cortex I. During cognitive task performance](#)
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Cognitive and emotional influences in anterior cingulate cortex
 Bush G, Luu P, Posner MI
TRENDS IN COGNITIVE SCIENCES
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Document type: Review Language: English Cited References: 66 Times Cited: 137

Abstract:
 Anterior cingulate cortex (ACC) is a part of the brain's limbic system. Classically, this region has been related to affect on the basis of lesion studies in humans and in animals. In the late 1980s, neuroimaging research indicated that ACC was active in many studies of cognition. The findings from EEG studies of a focal area of negativity in scalp electrodes following an error response led to the idea that ACC might be the brain's error detection and correction device. In this article, these various findings are reviewed in relation to the idea that ACC is a part of a circuit involved in a form of attention that serves to regulate both cognitive and emotional processing. Neuroimaging studies showing that separate areas of ACC are involved in cognition and emotion are discussed and related to results showing that the error negativity is influenced by affect and motivation. In addition, the development of the emotional and cognitive roles of ACC are discussed, and how the success of this regulation in controlling responses might be correlated with cingulate size. Finally, some theories are considered about how the different subdivisions of ACC might interact with other cortical structures as a part of the circuits involved in the regulation of mental and emotional activity.

KeyWords Plus:
 CEREBRAL BLOOD-FLOW, ERROR-DETECTION, COUNTING STROOP, HUMAN BRAIN, POSITIVE AFFECT, FUNCTIONAL MRI, NEURAL SYSTEM, ATTENTION, INTERFERENCE, PERFORMANCE

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[Cognitive neuroscience of emotion](#)
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- Dalgleish T, Taghavi R, Neshat-Doost H, et al.
[Patterns of processing bias for emotional information across clinical disorders: A comparison of attention, memory, and prospective cognition in children and adolescents with depression, generalized anxiety, and posttraumatic stress disorder](#)
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[Health-related quality of life \(HRQL\) and its relationship with cognitive and emotional deficits in DM1](#)
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