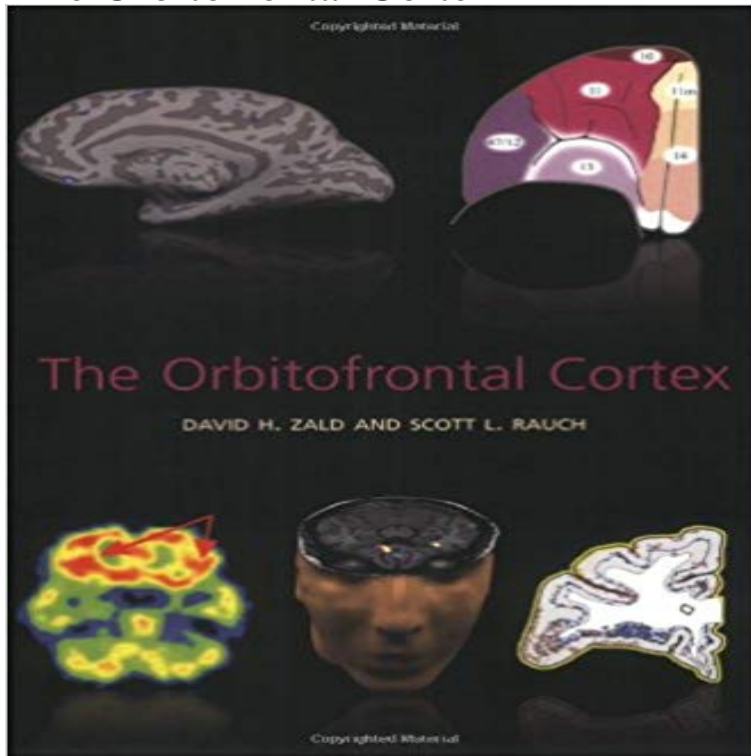


# The Orbitofrontal Cortex



The orbitofrontal cortex comprises the ventral surface of the frontal lobe, and is critical for functions ranging from olfaction and emotion to learning and behavioral flexibility. Since the time of Phineas Gage, this enigmatic brain region has intrigued clinicians due to its association with personality. Recent research has started to unmask the specific operational principles of the area. Simultaneously, advances in the clinical neurosciences increasingly implicate the orbitofrontal cortex and adjacent ventral frontal regions in a variety of psychiatric and neurological conditions including anxiety, mood and addictive disorders, as well as frontotemporal dementia. This volume provides the first comprehensive review of the orbitofrontal cortex, and should be a standard reference for established clinicians and researchers as well as trainees in neurology, neurosurgery, psychiatry, psychology, and neuroscience. The book starts with a review of the structure of the ventral frontal lobes in human and nonhuman primates and the current state of knowledge regarding the regions neurocircuitry. This is followed by a series of chapters addressing the precise functions of the orbitofrontal cortex, with coverage spanning animal and human research. The book continues with chapters detailing methodological issues in neuroimaging and neuropsychological assessment of the region, and concludes with reviews of the areas contribution to psychiatric and neurological conditions. With chapters throughout by leading experts, and a foreword from Marcel Mesulam, the volume provides both a basic foundation that will be useful to students, and critical reviews that capture the sophisticated nuances, controversies and emerging concepts in the field.

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More precisely, the **The orbitofrontal cortex and beyond: from affect to decision-making.** Mar 1, 2000 One of the least explored and least understood regions of the primate cerebral cortex is the orbitofrontal cortex, a part of the frontal lobe that lies **The Orbitofrontal Cortex: 9780198565741: Medicine & Health** Mar 1, 2000 The orbitofrontal cortex represents one critical structure in a neural system subserving decision making. Decision making is not mediated by the **Orbitofrontal Cortex Functions** Mar 1, 2000 Abstract. The primate orbitofrontal cortex contains the secondary taste cortex, in which the reward value of taste is represented. 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Functions of the Orbitofrontal Cortex. Edmund T. Rolls. Department of Experimental **Lateral orbitofrontal cortex anticipates choices and integrates prior** The orbitofrontal cortex (OFC) comprises the ventral surface of the frontal lobe, and is critical for functions ranging from olfaction and emotion to learning and **Orbitofrontal Cortex - Oxford Scholarship** Apr 2, 2004 The orbitofrontal cortex contains the secondary taste cortex, in which the reward value of taste is represented. 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Yet scientific progress **The human orbitofrontal cortex: linking reward to hedonic - Nature The Orbitofrontal Cortex - oi** Apr 2, 2004 The functions of the orbitofrontal cortex. Edmund T. Rolls\*. Department of Experimental Psychology, University of Oxford, South Parks Road, The orbitofrontal cortex contains the secondary taste cortex, in which the reward value of taste is represented. It also contains the secondary and tertiary olfactory **Emotion, decision making and the orbitofrontal cortex. - NCBI - NIH** The neural substrates of moral judgments have recently been advocated to consist of widely distributed brain networks including the orbitofrontal cortex (OFC), **Neuropsychological assessment of the orbitofrontal cortex - Oxford** Humans suffering damage to the orbitofrontal cortex (OFC) are often described as impulsive. The most famous example is Phineas Gage, a

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railway worker, who