



5-HT_{2C} receptors in the pathophysiology of CNS disease /

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Monografía

Research of 5-HT_{2c} receptors stretches back twenty-five years, and while much of it has been productive, the past decade of research has been extraordinary in terms of both amount produced and insights gained. It is hardly surprising that 5-HT_{2c} receptor research has grown so fruitful, given that it is a prominent central serotonin receptor subtype widely expressed within the central and the peripheral nervous system and is thought to play a major role in the regulation of numerous behaviors. It has further been shown by experimental and clinical observation that it may represent a possible therapeutic target for the development of drugs for a range of central nervous system disorders. The time, therefore, is more than appropriate to offer the first ever overview of the research of 5-HT_{2c} receptors. Part of the popular and important series, "The Receptors," The 5-HT_{2c} Receptor provides a thorough update of the functional status of the 5-HT_{2c} receptor. It covers the molecular, cellular, anatomical, biochemical and behavioral aspects of this receptor so as to highlight its distinctive regulatory properties and the emerging functional significance of constitutive activity and RNA-editing in vivo. In addition, the book investigates the receptors' therapeutic potential in a range of different diseases, treated individually in separate chapters, including depression, drug abuse, schizophrenia, eating disorders, Parkinson's disease, Prader-Willi Syndrome, Alzheimer's disease and epilepsy. While not exhaustive, this text is a vital tool in understanding the past and inspiring the future of interdisciplinary research on the 5-HT_{2c} receptor

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Contenido: The making of the 5-HT_{2C} receptor -- Serotonin 5-HT_{2C} receptors: chemical neuronatomy in the mammalian brain -- The medicinal chemistry of 5-HT_{2C} receptor ligands -- Insights into 5-HT_{2C} receptor function gained from transgenic mouse models -- Serotonin 5-HT_{2C} receptor signal transduction -- Homology modeling of 5-HT_{2C} receptors -- 5-HT_{2C} receptor dimerization -- RNA editing of 5-HT_{2C} receptor and neuropsychiatric diseases -- Serotonergic control of adult neurogenesis: focus on 5-HT_{2C} receptors -- The constitutive activity of 5-HT_{2C} receptors as an additional modality of interaction of the serotonergic system -- The 5-HT_{2C} receptor subtype controls central dopaminergic systems: evidence from electrophysiological and neurochemical studies -- The role of serotonin-2C receptors in the pathophysiology of depression -- 5-HT_{2C} receptors and suicidal behaviour -- The 5-HT_{2C} receptor as a target for schizophrenia -- Serotonin and reward-related behaviour: focus on 5-HT_{2C} receptors -- Tat-3L4F: a novel peptide for treating drug addiction by disrupting interaction between PTEN and 5-HT_{2C} receptor -- The role of serotonin in eating behaviour: focus on 5-HT_{2C} receptors -- Physiological and pathophysiological aspects of 5-HT_{2C} receptors in basal ganglia -- Modeling tardive dyskinesia: predictive 5-HT_{2C} receptor antagonist treatment -- The role of 5-HT_{2A/2C} receptors in sleep and waking -- Role of alternative splicing of the 5-HT_{2C} in the Prader-Willi syndrome -- The role of 5-HT_{2C} receptor in epilepsy -- The role of serotonin on attentional processes and executive functioning: focus on 5-HT_{2C} receptors -- 5-HT_{2C} receptors in learning -- The role of 5-HT_{2C} polymorphisms in behavioural and psychological symptoms of alzheimer's disease -- Ocular hypotension: involvement of serotonergic 5-HT_{2C} receptors

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