



Appetite and body weight [integrative systems and the development of anti-obesity drugs /

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Monografía

There is now enough basic work to sketch out the principal systems at all levels of the brain, from prefrontal cortex to lower brainstem, which are orchestrated to provide control of food selection, preference and consumption. At the same time, the complex interplay between central systems and signals generated from peripheral systems include the gut, liver and fat stores, as well as the interactions with the neuroendocrine system can be described in some detail. A continuing theme throughout the book is that the functional analysis of appetite and food intake cannot be limited to a single focus, e.g. hypothalamic neuropeptides and their interactions, but must be based on a fully integrated view of the several contributing systems. Appetite and Body Weight: Integrative Systems and the Development of Anti-Obesity Drugs provides an expert guide to the neural, neurochemical, autonomic and endocrine interrelations which underpin appetite and the controls of food intake and body weight. The book covers many of the neurochemical entities that are currently under investigation, including: neuropeptides, leptin, insulin, monoamines and endogenous cannabinoids in relation to appetite and body-weight control. In addition to the neuroscience analysis, there are also chapters that provide an expert guide to some of the key psychological concepts that the researchers believe are essential in trying to understand the phenomena under investigation. The volume will also serve as an authoritative guide to the current emphasis on the development of novel, efficacious anti-obesity medication. * Provides an integrative view of the many systems involved in appetite and how they interact to effect food intake (i.e. the brain, endocrine, gut, liver etc.) * Considers psychological aspects such as incentive, preference, liking and palatability, and sets these concepts in their behavioural, pharmacological and neural contexts * Examines the development of novel anti-obesity drugs, drawing on experience of pharmacological development work, pre-clinical tests for anti-obesity efficacy, and clinical trials of candidate anti-obesity compounds

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Contenido: Introduction and Overview. -- Cortical Systems Involved in Appetite and Food Consumption. -- The Nucleus Accumbens Shell as a Model of Integrative Subcortical Forebrain Systems Regulating Food Intake. -- Hypothalamic Neuropeptides and the Regulation of Feeding. -- The Gut-Brain Axis in the Control of Eating. -- Integration of Peripheral Adiposity Signals and Psychological Controls of Appetite. -- Brain Reward Systems for Food Incentives and Hedonics in Normal Appetite and Eating Disorders. -- Pharmacology of Food, Taste and Learned Flavour Preferences. -- The Role of Palatability in Control of Human Appetite: Implications for Understanding and Treating Obesity. -- Learned Influences on Appetite, Food Choice and Intake. -- Gene Environment Interactions and the Origin of the Modern Obesity Epidemic. -- Pre-Clinical Developments in Anti-Obesity Drugs. -- Clinical Investigations of Anti-Obesity Drugs Introduction and overview -- Cortical systems involved in appetite and food consumption -- Nucleus accumbens shell as a model of integrative subcortical forebrain systems regulating food intake -- Hypothalamic neuropeptides and feeding regulation -- Brainstem-hypothalamic neuropeptides and the regulation of feeding -- Gut-brain axis in the control of eating -- Integration of peripheral adiposity signals and psychological controls of appetite -- Brain reward systems for food incentives and hedonics in normal appetite and eating disorders -- Pharmacology of food, taste and learned flavor preferences -- Role of palatability in control of human appetite: implications for understanding and treating obesity -- Learned influences on appetite, food choice, and intake: evidence in human beings -- Gene environment interactions and the origin of the modern obesity epidemic: a novel nonadaptive drift scenario -- Preclinical developments in antiobesity drugs -- Clinical investigations of antiobesity drugs

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