



The Olfactory System: From Odor Molecules to Motivational Behaviors

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This book summarizes recent advances in understanding of the mammalian and fish olfactory system and provides perspective on the translation of external odor information into appropriate motivational and behavioral responses. Following the discovery of the odorant receptor gene family in 1991, understanding of the basic biological mechanisms of the olfactory system has advanced enormously. Despite such rapid progress, however, it remains unclear how odor information is processed at levels beyond the olfactory bulb, including the olfactory cortex, olfactory tubercle, and orbitofrontal cortex. This book thus describes the most recent developments in olfactory research, with particular focus on the basic neurobiological mechanisms of the neuronal circuit function in the olfactory system and its related higher centers. Exploring the basic functional logic of the neuronal circuits in the olfactory system in this way appears to be crucial in understanding the workings of the complex neuronal circuits of the brain, particularly those in the cerebral cortex that link sensory perception to appropriate behavioral responses. This book is written for the coming generation of scientists: undergraduates, graduate students, and postdoctoral researchers in the fields of neuroscience, neurobiology, chemical senses, food and nutritional sciences, medical science, sensory psychology, and behavioral sciences.



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