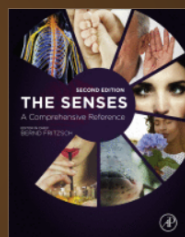# The Senses: A Comprehensive Reference

Reference Work • Second Edition • 2021

Editor-in-Chief:
Bernd Fritzsch

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Book description

The Senses: A Comprehensive Reference, Second Edition, is a comprehensive reference work covering the range of topics that constitute current knowledge of the neural mechanisms und ... read full description

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About this publication

Description

The Senses: A Comprehensive Reference, Second Edition, is a comprehensive reference work covering the range of topics that constitute current knowledge of the neural mechanisms underlying the different senses. This important work provides the most up-to-date, cutting-edge, comprehensive reference combining volumes on all major sensory modalities in one set.

Offering 264 chapters from a distinguished team of international experts, *The Senses* lays out current knowledge on the anatomy, physiology, and molecular biology of sensory organs, in a collection of comprehensive chapters spanning 4 volumes. Topics covered include the perception, psychophysics, and higher order processing of sensory information, as well as disorders and new diagnostic and treatment methods.

Written for a wide audience, this reference work provides students, scholars, medical doctors, as well as anyone interested in neuroscience, a comprehensive overview of the knowledge accumulated on the function of sense organs, sensory systems, and how the brain processes sensory input. As with the first edition, contributions from leading scholars from around the world will ensure *The Senses* offers a truly international portrait of sensory physiology. The set is the definitive reference on sensory neuroscience and provides the ultimate entry point into the review and original literature in Sensory Neuroscience enabling students and scientists to delve into the subject and deepen their knowledge.

Key Features

- **All-inclusive coverage of topics:** updated edition offers readers the only current reference available covering neurobiology, physiology, anatomy, and molecular biology of sense organs and the processing of sensory information in the brain
- **Authoritative content:** world-leading contributors provide readers with a reputable, dynamic and authoritative account of the topics under discussion
- **Comprehensive-style content:** in-depth, complex coverage of topics offers students at upper undergraduate level and above full insight into topics under discussion

Details

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Synopsis

This chapter takes the extensive research history on the mechanisms and physiology of sensorineural hearing loss as a starting point to discuss its functional consequences for human hearing.