Chemosensory Transduction

Description: Written by leaders in the field of chemosensation, Chemosensory Transduction provides a comprehensive resource for understanding the molecular mechanisms that allow animals to detect their chemical world. The text focuses on mammals, but also includes several chapters on chemosensory transduction mechanisms in lower vertebrates and insects. This book examines transduction mechanisms in the olfactory, taste, and somatosensory (chemesthetic) systems as well as in a variety of internal sensors that are responsible for homeostatic regulation of the body. Chapters cover such topics as social odors in mammals, vertebrate and invertebrate olfactory receptors, peptide signaling in taste and gut nutrient sensing. Includes a foreword by preeminent olfactory scientist Stuart Firestein, Chair of Columbia University's Department of Biological Sciences in New York, NY.

Chemosensory Transduction describes state-of-the-art approaches and key findings related to the study of the chemical senses. Thus, it serves as the go-to reference for this subject for practicing scientists and students with backgrounds in sensory biology and/or neurobiology. The volume will also be valuable for industry researchers engaged in the design or testing of flavors, fragrances, foods and/or pharmaceuticals.

- Provides a comprehensive overview for all chemosensory transduction mechanisms
- Valuable for academics focused on sensory biology, neurobiology, and chemosensory transduction, as well as industry researchers in new flavor, fragrance, and food testing
- Edited by leading experts in the field of olfactory transduction
- Focuses on mammals, but lower vertebrates and invertebrate model systems are also included

Contents:

Introduction and overview
Frank Zufall and Steven D. Munger

Section I. Social Odors and Chemical Ecology
1. Specialized chemosignaling that generates social and survival behavior in mammals
Lisa Stowers and Tsung-Han Kuo
2. Chemical ecology in insects
Bill Hansson and Dieter Wicher

Section II. Olfactory Transduction
3. Vertebrate odorant receptors
Kazushige Touhara, Yoshihito Niumura and Sayoko Ihara
4. Odor sensing by trace amine-associated receptors
Qian Li and Stephen D. Liberles
5. Aquatic olfaction
Sigrun Korsching
6. Insect olfactory receptors: An interface between chemistry and biology
Gregory M. Pask and Anandasankar Ray
7. Cyclic AMP signaling in the main olfactory epithelium
Christopher H. Ferguson and Haiqing Zhao
8. Cyclic GMP signaling in olfactory sensory neurons
Trese Leinders-Zufall and Pablo Chamero
9. Ciliary trafficking of transduction molecules
Jeremy C. McIntyre and Jeffrey R. Martens
10. Vomeronasal receptors: V1Rs, V2Rs and FPRs
Ivan Rodriguez
11. Vomeronasal transduction and cell signaling
Marc Spehr
12. Comparative olfactory transduction
Elizabeth A. Corey and Barry W. Ache

Section III. Gustatory Transduction
13. G protein-coupled taste receptors
Maik Behrens and Wolfgang Meyerhof
14. Mechanism of taste perception in Drosophila
Hubert Amrein
15. G protein-coupled taste transduction
Sue C. Kinnamon
16. The mechanisms of salty and sour taste
Steven D. Munger
17. Peptide signaling in taste transduction
Shingo Takai, Ryusuke Yoshida, Noriatsu Shigemura and Yuzo Ninomiya

Section IV. Stimulus Transduction in Other Chemodetection Systems
18. O2 and CO2 detection by the carotid and aortic bodies
Nanduri R. Prabhakar
19. Chemosensation in the ventricles of the central nervous system
Mari Aoki and Ulrich Boehm
20. Gut nutrient sensing
Sami Damak
21. Chemesthesia
Jay P. Slack

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