



# Chemosensory Information Processing

Edited by D. Schild

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# Chemosensory Information Processing

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## **Chemosensory Information Processing:**

**Chemosensory Information Processing** Detlev Schild, 2013-06-29 In July 1989 a symposium was held at the Physiology Department of the Georg August University Göttingen on the physiological biophysical biochemical and technical principles of the coding of chemical substances both in nervous systems and artificial devices This book is the collection of the papers presented at that meeting Biological and artificial systems for odor coding both have in common that the stimulus selectivity of the receptor cells sensors is usually very poor and the mechanisms which determine selectivity and sensitivity are largely unknown However a poor selectivity allows the coding of an enormous number of stimuli by combinations of receptor activities In the field of chemosensory information coding there are thus two major problems the function of the receptors and the network that processes and evaluates the primary information of the sensors Accordingly this volume has three parts sensors the network following the sensors and the coding in this network The expert secretarial assistance of M Holtmann in preparing the camera ready manuscript is gratefully acknowledged D Schild Göttingen August 1989 CONTENTS 1 Response of olfactory receptor cells isolated and in situ to low concentrations of odorants 1 Stephan Frings Bernd Lindemann 2 Excitation and adaptation of frog olfactory receptor neurones upon stimulation with second messengers and natural odorants 9 D Schild J A DeSimone S Hellwig 3 Receptor selectivity and dimensionality of odours at the stage of the olfactory receptor cells 21 GijJes Sicard 4 *Advances in Neural Information Processing Systems* 16 Sebastian Thrun, Lawrence K. Saul, Bernhard Schölkopf, 2004 Papers presented at the 2003 Neural Information Processing Conference by leading physicists neuroscientists mathematicians statisticians and computer scientists The annual Neural Information Processing NIPS conference is the flagship meeting on neural computation It draws a diverse group of attendees physicists neuroscientists mathematicians statisticians and computer scientists The presentations are interdisciplinary with contributions in algorithms learning theory cognitive science neuroscience brain imaging vision speech and signal processing reinforcement learning and control emerging technologies and applications Only thirty percent of the papers submitted are accepted for presentation at NIPS so the quality is exceptionally high This volume contains all the papers presented at the 2003 conference

**The Senses: A Comprehensive Reference**, 2020-09-30 The Senses A Comprehensive Reference Second Edition Seven Volume Set 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 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

**Function and Regulation of Chemoreceptors** Dieter Wicher, Frédéric Marion-Poll, 2019-02-08 To perceive environmental chemical compounds and to convert these external signals into an intracellular message might be the oldest way for a living being to get information from the outside world Chemoreceptors are proteins or protein complexes that detect molecules from the outside world either at distance olfaction or at close range gustation Chemoreceptors can operate as ionotropic or as metabotropic receptors Ionotropic receptors form ion channels that are activated via ligand binding Activation of a metabotropic receptor initiates an intracellular signaling cascade that could include a change of enzymatic activity production of second messenger or activation of ion channels The receptor performance has to be fine tuned according to the actual physiological requirements and the presentation of the chemical signal This Research Topic collects reports and reviews on structure and function of chemoreceptors in the animal kingdom and how these receptors are regulated *The Quarterly Journal of Experimental Psychology*, 2001

**Chemosensory Systems in Mammals, Fishes, and Insects** Wolfgang Meyerhof, Sigrun Korsching, 2009-04-23 The sense of smell has an essential role in locating food detecting predators navigating and communicating social information Accordingly the olfactory system has evolved complex repertoires of receptors to face these problems Although the sense of taste has less far reaching tasks they are every bit as essential for the animals well being allowing it to reject toxic materials and to select nutritionally valuable food The last decade has seen a massive advance in understanding the molecular logic of chemosensory information processing beyond that already achieved in the first few years following Linda Buck's discovery of odorant receptors Shortly afterwards the major principles of olfactory representation had been established in mammals as the one neuron one receptor rule and the convergence of neurons which express the same receptor onto individual modules in the olfactory bulb In recent years such studies have been extended to lower vertebrates including fishes and other phyla i.e. arthropods worms and insects showing both the general validity of these concepts and some exceptions to the rule In parallel hallmarks of the molecular logic of taste sensation have been deciphered and found to differ in interesting ways from those of smell sensation



that already achieved in the first few years following Linda Buck's discovery of odorant receptors. Shortly afterwards the major principles of olfactory representation had been established in mammals as the one neuron one receptor rule and the convergence of neurons which express the same receptor onto individual modules in the olfactory bulb. In recent years such studies have been extended to lower vertebrates including fishes and other phyla i.e. arthropods, worms and insects showing both the general validity of these concepts and some exceptions to the rule. In parallel hallmarks of the molecular logic of taste sensation have been deciphered and found to differ in interesting ways from those of smell sensation. *Network*, 1998

**Research Awards Index**, 1984    **Journal of Morphology**, 1995    *Sensory Receptors and Signal Transduction* John L. Spudis, Birgit Satir, 1991-10-23. Based on thought provoking overviews by experts in their fields this topical book details energy transducing and sensory systems which regulate cellular responses to chemical, light and other external stimuli. Probes mechanisms underlying regulatory pathways that have evolved with complex organisms from studies of chemotaxis and photoreception in bacterial model systems to genetic analysis of G Protein coupled receptors in yeast.    **Learning and Memory**, 2008    *Sensory Biology of Aquatic Animals* Jelle Atema, 1988

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