



Chemosensory Information Processing

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Chemosensory Information Processing

**Eric R. Kandel, James Harris
Schwartz, Thomas Jessell**



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 Gijss 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 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 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

The Quarterly Journal of Experimental Psychology, 2001 **Affective Sciences through the Chemical Senses** Géraldine Coppin, Valentina Parma, Bettina M. Pause, 2017-01-13 In people s minds smells flavors and affective phenomena are perceived as closely linked But is it genuinely the case The scientific study of this question is a rapidly expanding field both in healthy and in clinical populations Although still under studied in comparison to other sensory modalities chemical senses have proven to bring unique knowledge in the understanding of affective phenomena In this context this Research Topic is aimed to offer a snapshot of the present knowledge and questions raised in this field Topics include but are not limited to affects elicited by odors and or flavors in different individuals contexts or cultures emotional potency of odors in guiding human behavior and cognition e g attention memory formation decisions and choices withdrawal and approach behavior affects communicated by body odors affect regulation disorders and chemosensory perception Studies on the biological underpinnings of these effects are also included

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Biomedical Index to PHS-supported Research: pt. A. Subject access A-H, 1992

WCNN'96, San Diego, California, U.S.A. International Neural Network Society, 1996 □□□□□□□□□□□□□□□□

,1989 *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

The Neurobiology of Taste and Smell Thomas E. Finger, W. L. Silver, D. Restrepo, 2000-09-26 Edited by Thomas E Finger Wayne L Silver and Diego Restrepo The ability to detect chemicals in one's surroundings is a vital function for organisms ranging from single cells to insects to humans The explosion of information provided by molecular and cellular biology has contributed greatly to our understanding of how the chemical senses function in these organisms and is the impetus for the second edition of *The Neurobiology of Taste and Smell* This updated edition contains all new chapters by many new contributors although this edition like the first is intended to provide an introduction to the field itself The second edition incorporates the significant strides that have been made with the application of modern cell and molecular techniques It includes the following subjects Chemical sensitivity and sensibility Olfaction Gustation Genetic models of chemoreception Chemosensory signaling Transduction and the molecular biology of olfaction and taste And much more Covering a wide range of disciplines including neurobiology molecular biology anatomy physiology pharmacology biochemistry and psychology *The Neurobiology of Taste and Smell* Second Edition provides a comprehensive description of the crucial issues and important developments within each area Students and researchers in neuroscience and cell and molecular biology in addition to new investigators to the field will find the Second Edition an essential reference of updated information

[Index of Conference Proceedings](#) British Library. Document Supply Centre, 1990 ***Journal of Morphology*** ,1995 [Network](#) ,1998 *Sensory Biology of Aquatic Animals* Jelle Atema, 1988 ***Neurobiology of Taste and Smell*** Thomas E. Finger, Wayne L. Silver, 1991 An introduction and overview of the chemical senses from single cell organisms to vertebrates including man this book is directed at the non specialist who may be familiar with other aspects of neurobiology but lacks knowledge of the chemical senses [Principles of Neural Science, Fourth Edition](#) Eric R. Kandel, James Harris Schwartz, Thomas Jessell, 2000-01-05 A Doody's Core Title for 2011 5 STAR DOODY'S REVIEW This is a simply wonderful

book that makes accessible in one place all the details of how the neuron and brain work The writing is clear The drawings are elegant and educational The book is a feast for both the eye and mind The richness the beauty and the complexity of neuroscience is all captured in this superb book Doody s Review Service Now in resplendent color the new edition continues to define the latest in the scientific understanding of the brain the nervous system and human behavior Each chapter is thoroughly revised and includes the impact of molecular biology in the mechanisms underlying developmental processes and in the pathogenesis of disease Important features to this edition include a new chapter Genes and Behavior a complete updating of development of the nervous system the genetic basis of neurological and psychiatric disease cognitive neuroscience of perception planning action motivation and memory ion channel mechanisms and much more *American Journal of Enology and Viticulture* ,1997

Intelligent Engineering Systems Through Artificial Neural Networks

Cihan H. Dagli,1994 Proceedings of the Artificial Neural Networks in Engineering Conference ANNIE 94 November 13 16 1994 in St Louis Missouri Heightened interest in engineering applications of neural networks in recent years has led to intense research in the field Volume 4 of this highly successful book series boasts the contributions of researchers from 20 countries They examine the theory and applications of artificial neural networks fuzzy logic and evolutionary programming The volume provides refereed versions of the latest developments in design and manufacturing engineering including comprehensive coverage of Artificial neural network architectures Fuzzy neural networks Evolutionary programming Pattern recognition Smart engineering systems for biology and medicine Neuro control Neuro manufacturing and Neuro Engineering systems

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