

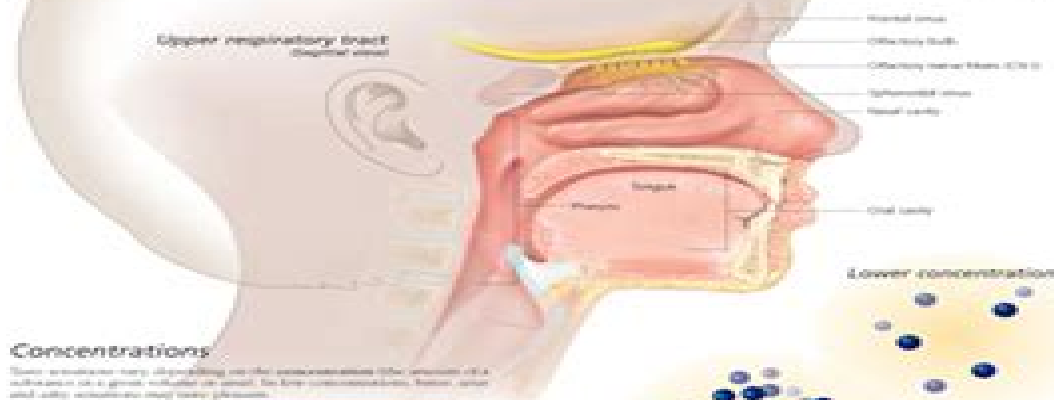


# PHYSIOLOGY SERIES

## Taste & Smell

### Taste & smell

Most of our special senses are chemoreception systems: gustation (taste) and olfaction (smell). The degree to which we sense hot or cold, sweet or bitter, salty or sour, is not directly related to the actual concentration of the substance in the food or beverage. Taste buds and olfactory receptors are specialized receptor cells that respond to molecules dissolved in fluid (taste) and in air (smell). The sense of taste is less discriminatory than the sense of smell, and there is an overlap between taste receptors. The sense of smell is highly discriminatory, with several types of olfactory receptors, each responding to particular odors. Taste and olfaction are linked to smell, sweet and umami, important with the taste food substances, but taste is particularly affected by the sense of smell.



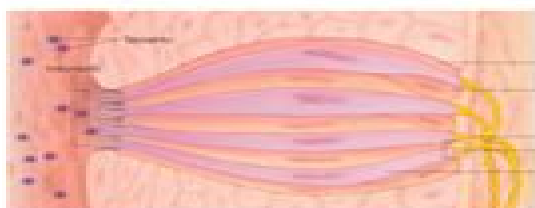
### Concentrations

Taste receptors vary depending on the concentration of the substance in a given solution or food. For low concentrations, bitter, sour and salty receptors may taste pleasant.



### Gustation

Gustation, the sense of taste, gives us information about the food and drink that we consume. Taste buds on the primary gustatory organ, the tongue, contain chemoreceptor called gustatory cells. These taste buds have four types of receptors: sweet, salty and sour. A fifth taste, umami, or savory, has been reported. This flavor is associated with umami, or the aged flavor of meat broth.



### The taste bud

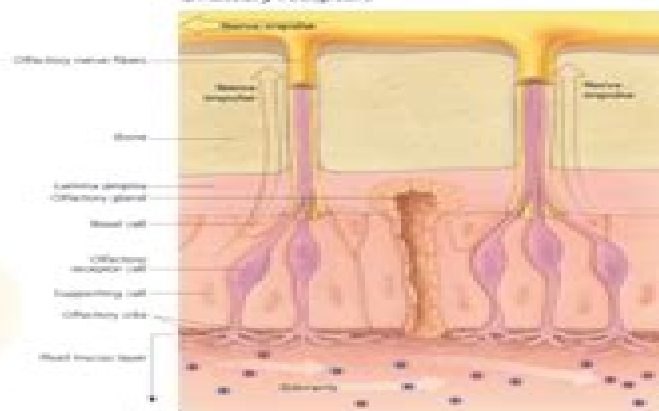
Umami, substances that produce taste, bind to receptor molecules on the surface of the microvilli. The resulting receptor potential travels to the basal end of the gustatory cell, where the signal is chemically transmitted across the synapse to a nearby neuron. Gustatory cells live about 10 days, after which they are replaced by new cells generated from basal cells at the base of the taste buds.

### Olfaction

The sense of smell is called olfaction, or the detection of odors. Olfaction depends on specialized chemical receptors, or chemoreceptors, located within the olfactory epithelium. These receptors are designed to sense small amounts of an odorant, a molecule that can be smelled. The brain integrates the input from several different receptors to identify a particular odor. Humans can detect about 10,000 odors.

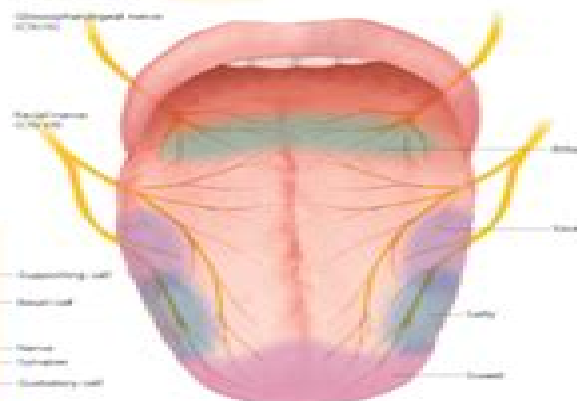
As air flows through the nose, the odors across the nasal cavity pass through mucus, trapping odorous molecules and contact with the olfactory neurons. Mucus increases the ability to detect odors by increasing the volume of air inhaled, which can increase the number of receptors.

### Olfactory receptors

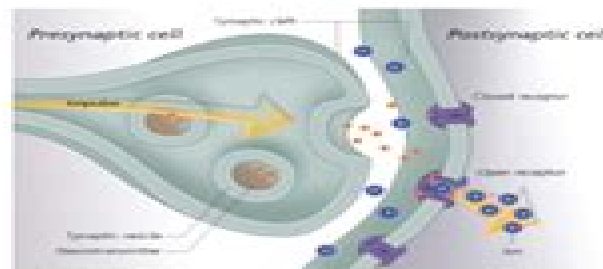


### Olfactory receptors

Odorous molecules in the fluid above them are produced by the olfactory glands, then bind to receptor molecules on the olfactory cells. The receptor potential that is generated travels along the axon to the olfactory bulb, where it meets the input to the higher brain centers. Unlike other senses, the olfactory neurons are connected directly to the cerebral cortex, rather than through the thalamus in the cerebrum.



Compound sweet and salty tastes, we are 100 times more sensitive to these compounds and about 1,000 times more sensitive to acids (sour). The fact that a small taste, sour, can be so strong is because it is so sensitive to the acid. Typically, an adult can taste about 10,000 times more than the average child, as we age.



### The synapse

Neurons communicate with other cells at a synapse, the site of a nerve impulse transmission. The space between the presynaptic, or sending, neuron and the postsynaptic, or receiving, cell is called the synaptic cleft. An impulse enters at the top of the axon, the terminal button where "messengers" molecules called neurotransmitters. These highly specialized chemicals carry nerve impulses from the presynaptic cell to the postsynaptic cell and the adjacent sensory or motor cells, inhibiting or activating second impulses in the target cells.

# Smell And Taste

**L Cohen**



## **Smell And Taste:**

*Taste and Smell Disorders* Allen M. Seiden, 1997 Approximately two million Americans suffer from taste smell disorders This much needed book provides complete information on the pathophysiology anatomy biochemistry patient evaluation treatment of chemosensory disorders More than a dozen new topics are covered including Taste and Smell Thomas Hummel, Antje Welge-Lüssen, 2006 Chemosensory dysfunction is a quite frequently occurring problem which significantly affects the patient's quality of life It can result from infectious agents environmental factors toxins traumatic brain injuries as well as neurodegenerative diseases This publication provides up to date articles on the chemical senses including the olfactory trigeminal and gustatory systems The vomeronasal system and its potential significance in humans is also discussed Based on recent functional imaging data the book provides an overview on how the lower senses function how they work together for example to produce flavor how they can be damaged and repaired and how the function of human chemical senses can be assessed The publication focuses on chemosensory dysfunction and pays particular attention to taste and its disorders Renowned experts in their fields of research have contributed their findings to this topical update on chemosensory disorders and made this volume indispensable reading for otorhinolaryngologists and neurologists **Olfaction, Taste, and Cognition** Catherine Rouby, Benoist Schaal, Danièle Dubois, Rémi Gervais, A. Holley, 2002-10-28 The human organs of perception are constantly bombarded with chemicals from the environment Our bodies have in turn developed complex processing systems which manifest themselves in our emotions memory and language Yet the available data on the high order cognitive implications of taste and smell are scattered among journals in many fields with no single source synthesizing the large body of knowledge much of which has appeared in the last decade This book presents the first multidisciplinary synthesis of the literature in olfactory and gustatory cognition Leading experts have written chapters on many facets of taste and smell including odor memory cortical representations psychophysics and functional imaging studies genetic variation in taste and the hedonistic dimensions of odors The approach is integrative combining perspectives from neuroscience psychology anthropology philosophy and linguistics and is appropriate for students and researchers in all of these areas who seek an authoritative reference on olfaction taste and cognition *Navigating Smell and Taste Disorders* Dr. Ronald DeVere, MD, Marjorie Calvert, 2010-08-03 Demos Health and the American Academy of Neurology Present a New Book for Patients with Smell and Taste Disorders Over 200 000 people visit doctors each year for smell and taste problems Since our ability to smell and taste decreases with age up to 14 million Americans aged 55 and older may live with these disorders undiagnosed Smell and taste disorders affect a person's ability to enjoy food and drink and may result in decreased appetite weight loss and too much added sugar and salt in the diet In severe cases they may lead to depression Smell and taste problems can also interfere with personal safety limiting the ability to notice smoke and potentially harmful chemicals and gases *Navigating Smell and Taste Disorders* is a unique collaboration between a doctor and a food consultant that both

addresses the subject of smell and taste loss and provides food preparation tips and a special recipe section that will appeal to other senses and make food attractive again This is a must have reference book for all those living with smell and taste disorders The book covers the whole disorder including How smell and taste work Causes of smell and taste problems Treatments What you can expect when you visit a specialist Recipes that will appeal to other senses and make food attractive again First person accounts of coping with this disorder Navigating Smell and Taste Disorders is the inaugural book in the series Neurology Now Books from the American Academy of Neurology Inspired by Neurology Now the AAN s leading neurologic patient information magazine Neurology Now Books are written from a multidisciplinary approach combining the expertise of a neurologist with other related experts and patients and caregivers Each volume will provide the reader with the most up to date information answers to questions and concerns and first person accounts of others who are living with a neurologic disorder

*Smelling and Tasting* Alvin Silverstein, Virginia B. Silverstein, Laura Silverstein Nunn, 2002-01-01 Describes the function of smells and tastes how the brain translates and processes these messages and the research in these areas

**See, Hear, Smell, Taste, and Touch** Andrew Collins, 2006 Diagrams and simple experiments are used to explain the five senses

**Smell and Taste Complaints** Christopher H. Hawkes, 2002 This practical brief guide to diagnosing and treating causes of disorders of smell and taste is the only accessible handbook available for non experts Signs of problems with these two senses may be ignored by the patient or downplayed by the physician but the disruption of the senses may be a first sign of serious illness The wide range of conditions responsible for disorders of smell and taste make it difficult to determine the single underlying cause and to decide upon the best possible plan of treatment Disorders of Smell and Taste will help physicians manage some of these patients thereby minimizing references to specialists The only accessible handbook available for the non expert Pocket sized guide provides easy access for clinicians Practical and brief this handbook aids physicians in the diagnosis and treatment of sense disorders

*Smell and Taste Disorders* Christopher H. Hawkes, Richard L. Doty, 2018-01-25 Loss of the sense of smell or taste is often a sign of neurological disease Evaluating chemosensation the senses of smell and taste during neurological examination can help early detection of neurodegenerative conditions such as Parkinson s and Alzheimer s disease The importance of such testing is now receiving increasingly high profile in the medical curriculum In this book olfactory conditions are completely updated and the sense of taste is now included in similar detail It is written by experts in the field covering anatomy and physiology of human olfaction and taste how they can be measured and their relevance to a wide range of major disorders such as diabetes kidney disease Alzheimer s and Parkinson s disease The Olfactory Vector Hypothesis that suggests a neuropathogen may enter the nose en route to the brain is evaluated in detail This introduction to smell and taste disorders is an essential guide for neurologists neurosurgeons otolaryngologists medical trainees and chemosensory scientists

Tastes & Aromas Graham A. Bell, Annesley J. Watson, 1999 Provides an overview of the current status of basic science on the senses of smell taste and pungency on which

practical applications are based and then show where some of the most interesting practical outcomes of these fundamentals are currently being applied      Psychology Don H. Hockenbury, Sandra E. Hockenbury, 2002-07-19 New edition of the Hockenburys text which draws on their extensive teaching and writing experiences to speak directly to students who are new to psychology      **The Relation of Smell, Taste, and the Common Chemical Sense in Vertebrates** George Howard Parker, 1912      **Primary Care - E-Book** Terry Mahan Buttarro, Patricia Polgar-Bailey, Joanne Sandberg-Cook, Karen L. Dick, Justin B. Montgomery, 2024-03-02 Selected for Doody's Core Titles 2024 in Advanced Practice There's no better preparation for Nurse Practitioners and other adult primary care practitioners Buttarro's Primary Care Interprofessional Collaborative Practice 7th Edition provides the concise yet thorough information that you need in today's fast paced interprofessional collaborative environment With authorship reflecting both academic and clinical expertise this comprehensive evidence based primary care text reference shows you how to deliver effective truly interdisciplinary health care It covers every major adult disorder seen in the outpatient office setting and features a unique interprofessional collaborative approach with referral and Red Flag highlights and more New to this edition are chapters on health equity public health preparedness endocannabinoids and self care Comprehensive evidence based accurate and current content provides a complete foundation in the primary care of adults for NP students including students in Doctor of Nursing Practice DNP programs and reflects the latest research and national and international guidelines UNIQUE Interprofessional collaborative approach equips you for interprofessional collaborative practice in the contemporary healthcare environment Consistent chapter format and features reflect the systematic approach used in adult primary care practice to promote improved clinical judgment skills facilitate learning and foster quick clinical reference UNIQUE Referral Consultation highlights indicate when the NP should collaborate with or refer to other providers UNIQUE Emergency Referral highlights indicate when the NP should refer the patient for urgent emergent care UNIQUE Red Flag highlights indicate issues not to be missed UNIQUE Initial Diagnostics boxes provide quick reference to key decision making content      **Bulletin**, 1908

*Taste and Smell* Doug Kincaid, Peter Sephton Coles, 1983 Introduces the senses of taste and smell and explains how some things are good to taste while others are not and how smells can tell us about things and warn us of danger      *Head and Neck* Enrico Marani, Ciska Heida, 2018-11-02 This book offers a critical review of the head and neck from an anatomical physiological and clinical perspective It begins by providing essential anatomical and physiological information then discusses historical and current views on specific aspects in subsequent chapters For example the anatomy of the skull cap or cranial vault provided in the first chapter is discussed in the context of malformation and identity as well as the development of the bony skull in the following chapters These chapters provide stepping stones to guide readers through the book There are new fields of research and technological developments in which Anatomy and Physiology lose track of progress One of the examples discussed is the automated face recognition In some respects e.g. when it comes to cancers and

malformations our understanding of the head and neck and the resulting therapeutic outcomes have been extremely disappointing In others such as injuries following car accidents there have been significant advances in our understanding of head and neck dysfunctions and their treatment Therefore head movements also during sleep and head and neck reflexes are discussed The book makes unequivocal distinctions between correct and incorrect assumptions and provides a critical review of alternative clinical methods for head and neck dysfunctions such as physiotherapy and lymphatic drainage for cancers Moreover it discusses the consequences of various therapeutic measures for physiological and biomechanical conditions as well as puberty and aging Lastly it addresses important biomedical engineering developments for hearing e g cochlear implants and for applying vestibular cerebellar effects for vision

*Essentials of Food Science* Vickie A. Vaclavik, Elizabeth W. Christian, 2007-12-03 *Essentials of Food Science* covers the basics of foods food science and food technology The book is meant for the non major intro course whether taught in the food science or nutrition dietetics department In previous editions the book was organized around the USDA Food Pyramid which has been replaced The revised pyramid will now be mentioned in appropriate chapters only Other updates include new photos website references and culinary alerts for culinary and food preparation students Two added topics include RFID Radio frequency ID tags and trans fat disclosures Includes updates on food commodities optimizing quality laws and food safety

*You Smell and Taste and Feel and See and Hear* Mary Murphy, 1997-11-01 *Real World Psychology* Catherine A. Sanderson, Karen R. Huffman, 2019-12-24 *Real World Psychology* balances comprehensive coverage of the key concepts in introductory psychology with a concise presentation style and engages students with current and interesting research that explores these concepts in real life contexts *Real World Psychology* features the incomparable author team of Karen Huffman Palomar College and Catherine Sanderson Amherst College who create an outstanding text that is appealing to students and instructors at a wide range of academic institutions The new edition has been thoroughly updated and features a new focus on Scientific Thinking and Practical Applications underscoring the fact that connecting the principles of psychological science to everyday life is critical to student engagement and ultimately key to their success not only in the introductory psychology course but in whatever their chosen field of study and in everyday life Students will leave the course with an appreciation of how a basic yet scientific understanding of human behavior can benefit them in their studies in their personal lives and in their professional endeavors

**An Immense World** Ed Yong, 2022-06-21 NEW YORK TIMES BESTSELLER A thrilling The New York Times dazzling The Wall Street Journal tour of the radically different ways that animals perceive the world that will fill you with wonder and forever alter your perspective by Pulitzer Prize winning science journalist Ed Yong One of this year s finest works of narrative nonfiction Oprah Daily ONE OF THE TEN BEST BOOKS OF THE YEAR The Wall Street Journal The New York Times Time People The Philadelphia Inquirer Slate Reader s Digest Chicago Public Library Outside Publishers Weekly BookPage ONE OF THE BEST BOOKS OF THE YEAR Oprah Daily The New Yorker The Washington Post The Guardian The Economist

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The book delves into Smell And Taste. Smell And Taste is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Smell And Taste, encompassing both the fundamentals and more intricate discussions.

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5. In chapter 4, the author will scrutinize the relevance of Smell And Taste in specific contexts. The fourth chapter will explore how Smell And Taste is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Smell And Taste. This chapter will summarize the key points that have been discussed throughout the book.

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