

SPECIAL SENSE ORGANS

Overview

- organs of special senses include:

gustatory	- taste
olfactory	- smell
visual	- vision
auditory	- hearing
vestibular	- position & movement

- sense organs responsible for perception, touch, pressure, pain and temperature

Classification of Receptors

- according to function
- 1. **photoreceptor** - vision
- 2. **audioreceptor** - hearing
- 3. **chemoreceptor** - taste and smell
- receptors for CO₂ and O₂
- 4. **proprioceptor** - vestibular part of the ear
- muscle, joints & tendon receptors
- 5. system related to somatic and visceral sensitivity
- pain, temperature, pressure & vibration
- includes mechanoreceptors

Sensory Receptors

- Free Nerve Endings**
 - mainly responsible for pain and itch sensations, and detecting temperature
 - occupy the papillary dermis and send twigs into the epidermis where some of them associate with Merkel cells
 - acts as slowly adapting mechanoreceptors
- peritrichial endings:**
main tactile organs for hairy skin
- Encapsulated Nerve Endings**



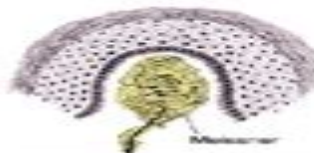
Vater-Pacini or Lamellated Corpuscles of Pacini



- responsible for vibration and for the detection of deep pressure
- found deep in the subcutis, singly or in small clusters, numerous in the palms and soles
- made up of lamellated or concentric layers

Meissner's Corpuscle

- adapting mechanoreceptors responsible for touch sensation and 2-point tactile discrimination
- prominent in the papillary dermis of the pulps of the fingers and toes, lips, nipples and genitalia
- with epitheloid cells arranged transversely



Ruffini's Corpuscle

- small simple dermal mechanoreceptors
- thin CT capsule with spray-like nerve endings
- heat receptors

End Bulb of Krause

- branched or coiled terminating club-like nerve endings



cold mechanoreceptors

Chemoreceptor System

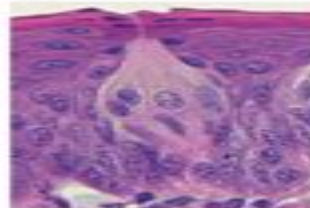
GUSTATORY (Sense of Taste)

Taste Buds

- chemoreceptors for the sense of taste (gustation)
- oval, onion shaped structures within darkly staining stratified squamous epithelium
- opens at the surface via the taste pore

Taste Sensations

sweet	anterior 2/3	fungiform
salt		
sour	lateral	
bitter	posterior 1/3	circumvallate



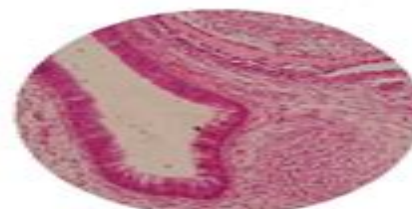
taste pore
 microvilli
 supporting cell
 taste cell
 basal cell
 blood vessel

OLFACTION (Sense of Smell)

- located in a modified form of respiratory epithelium called **olfactory neuroepithelium** in the nasal cavity
- epithelium is very tall, pseudostratified columnar in form (no goblet cells and no distinct basal lamina)

contains cells of 3 types:

- olfactory receptor cells
- sustentacular cells
- basal epithelial cells



- lamina propria of the olfactory epithelium possesses the

glands of Bowman (serous tubulo-adrenal)

- facilitating the access of new odoriferous substances
- produce the watery

surface secretions

olfactory receptor cells

- true bipolar neurons
- contains **olfactory cilia** for the perception of smell

sense of smell more sensitive than sense of taste

Photoreceptor System

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Arturo Cuomo



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Albert Kaskel,1994-04-19 *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents,1974 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index *New Research on Pharmacogenetics* Linda P. Barnes,2007 The terms pharmacogenomics and pharmacogenetics tend to be used interchangeably and a precise consensus definition of either remains elusive Pharmacogenetics is generally regarded as the study of genetic variation that gives rise to differing response to drugs while pharmacogenomics is the broader application of genomic technologies to new drug discovery and further characterization of older drugs Pharmacogenetics considers one or at most a few genes of interest while pharmacogenomics considers the entire genome Much of current clinical interest is at the level of pharmacogenetics involving variation in genes involved in drug metabolism with a particular emphasis on improving drug safety This new book presents leading edge research in this dynamic field

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Cosmetic Formulation Heather A.E. Benson, Heather Benson, Michael S. Roberts, Vania Rodrigues Leite-Silva, Kenneth Walters, 2019-04-05 Cosmetics are the most widely applied products to the skin and include creams lotions gels and sprays Their formulation design and manufacturing ranges from large cosmetic houses to small private companies This book covers the current science in the formulations of cosmetics applied to the skin It includes basic formulation skin science advanced formulation and cosmetic product development including both descriptive and mechanistic content with an emphasis on practical aspects Key Features Covers cosmetic products formulation from theory to practice Includes case studies to illustrate real life formulation development and problem solving Offers a practical user friendly approach relying on the work of recognized experts in the field Provides insights into the future directions in cosmetic product development Presents basic formulation skin science advanced formulation and cosmetic product development

Electroreception Theodore Holmes Bullock, Carl D. Hopkins, Richard R. Fay, 2006-09-28 Electroreception has become one of the most revealing areas in the study of the neural basis of behavior and neurobiologists recognize it as a model sensory system for experimental study Through studies of electroreception researchers have gained extensive knowledge about a complete sensory system from molecular biology to computation communication and behavior The book Electroreception will examine the behavior structure and function of the electrosensory systems of fish and other vertebrates As a comprehensive volume on the subject the book will serve as both an introduction to the study of electroreception and a reference and review volume for researchers in related fields

Saturday Review of Literature , 1929 **Pesticides Documentation Bulletin** , 1969 **Reader's Guide to Periodical Literature Supplement** , 1927

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Cephalic Sensory Organs of the Female Horse Fly *Tabanus quinquevittatus* Wiedemann (Diptera: Tabanidae) Harvey Israel Scudder, 1953 **Introduction to the Biology of Marine Life** John Morrissey, James Sumich, 2012 The ocean as a habitat the changing marine environment the world ocean classification of the marine environment Patterns of association Microbial heterotrophs and invertebrates Marine vertebrates fishes and reptiles the deep sea floor

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