

Variations in human physiology

Manchester University Press - Genetics Infuses New Life into Human Physiology

Lab 4 Cutaneous Sensation

Prelab Reading: Cindy (2011) *Principles of Human Physiology*, Chapter 1 pp. 253-269, 273-290.

Sensory receptors sense environmental stimuli such as color, smell, taste and sound. These receptors turn the energy stored in these stimuli into action potentials. Action potentials are conducted to our central nervous system by sensory neurons.

Objectives: To understand how sensory receptors work (LO 10.1). In this exercise, we will investigate the general sensory receptors such as mechanoreceptors, chemoreceptors and thermoreceptors.

Materials: 15 test subjects, materials of sensory receptors.

Sensory Receptor	Type	Environmental Stimulus	Response
Photoreceptors	Light	Photo of light	
Chemoreceptors	Taste	Detects dissolved in saliva	
Tactile	Touch	Detects pressure or stretch	
Hair cells	Sound	Increase in temperature between 30°C and 40°C	
Mechanoreceptors	Stretch	Decrease in temperature below 30°C and 10°C	
Thermoreceptors	Heat	Receptor	
Hair cells	Sound	Detect waves	
		Balance and equilibrium	

Work in a group of three. Take turns to play the roles of the test subject, the tester and the recorder.

A. Olfaction: Smell is detected by the olfactory (olfactory) receptor, which is high up in our nasal passages. These receptors synapse with neurons in the olfactory bulb. There are approximately 10 million olfactory receptors and about 5 million olfactory receptors and 1000 types. The sensitivity of smell decreases as it adapts to the general smell. The ability to smell decreases with age, gender, marital status and physical health. This test before detects the smell discrimination.

Procedure:

1. Test subject follows the pathway of in Figure 1. And explain the neural pathway for olfaction.
2. Test subject:

 - a) Close your eyes (you are the subject)
 - b) Have your partner (tester) place a bottle with the sample in front of your nostrils.

Figure 1 Olfaction

Description: -

Taxation -- Law and legislation -- Italy.

Business enterprises -- Taxation -- Italy.

Baranik, Rudolf -- Exhibitions.

Adaptation, Physiological

Variation (Biology)

Human physiology

Adaptation (Physiology)Variations in human physiology

-Variations in human physiology

Notes: Includes bibliographies and index.

This edition was published in 1985



Filesize: 11.43 MB

Tags: #Impact #of #genetic #variation #on #human #physiology #and #pharmacological #response

Introduction to physiology: History, biological systems, and branches

Prokaryotes are cells that don't have organelles or a nucleus. Connective Tissue The type of tissue that is surrounded with what is called its matrix, as shown in the picture below: Section of epididymis.

Human immune system variation

As a result, HPHY 321—325 must be completed in residence at the University of Oregon; transfer students should plan on taking the courses on the UO campus. However, it is of value in studying the few relatively isolated communities that have survived. Local valuation may affect social standing, reproductive opportunities, or even survival.

Human variability

Many Americans are recognizing that the social categories of race as evolved in the United States are inadequate for such peoples who, indeed, do not share the of racial minorities in the United States. When meiosis occurs, the parent or origin cell, half of the original number of chromosomes result. As a result, the populational model is of little help in understanding most of human variation today.

Variations in Human Physiology

Nervous tissue and neurons are found throughout the central nervous system and the peripheral nervous system.

Variations in normal human laryngeal anatomy and physiology as viewed fiberscopically

Climate has effects on determining what kinds of human variation are more adaptable to survive without much restrictions and hardships. In a homozygous dose it is a significant disability. Diffusion Diffusion is a process in physics.

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