

The body's sensory receptors react to stimuli or changes occurring within the body and in the external environment. When triggered, these receptors send nerve impulses along afferent pathways to the brain for interpretation. Thus, these specialized parts of the nervous system allow the body to assess and adjust to changing conditions in order to maintain homeostasis.

The minute receptors of general sensation that react to touch—pressure, pain, temperature changes, and muscle tension—are widely distributed in the body. In contrast, receptors of the special senses—sight, hearing, equilibrium, smell, and taste—tend to be localized and in many cases are quite complex.

The structure and function of the special sense organs are the subjects of the activities in this chapter.

## BUILDING THE FRAMEWORK

### The Eye and Vision

1. Complete the following statements by writing the missing terms in the answer blanks.

- |                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>extrinsic</u>    | 1. | Attached to the eyes are the <u>(1)</u> muscles, which enable us to direct our eyes toward a moving object. The anterior aspect of each eye is protected by the <u>(2)</u> , which have eyelashes projecting from their edges. Associated with the eyelids are both typical sebaceous glands and modified sebaceous glands called <u>(3)</u> that help lubricate the eyes. An inflammation of one of these (latter) glands is called an <u>(4)</u> . |
| <u>eyelid</u>       | 2. |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>tarsal gland</u> | 3. |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <u>sty</u>          | 4. |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

2. Three accessory eye structures contribute to the formation of tears and/or aid in lubricating the eyeball. In the table, name each structure and its major secretory products. Indicate the various components of the secretion if applicable.

Accessory eye structures	Secretory product
<u>Conjuction</u>	<u>Mucus</u>
<u>lacrimal gland</u>	<u>salt water</u>
<u>meibomian gland</u>	<u>oil</u>

3. Trace the pathway that the secretion of the lacrimal glands takes from the surface of the eye by assigning a number to each structure.

- |                          |                                 |
|--------------------------|---------------------------------|
| <u>3</u> 1. Lacrimal sac | <u>3</u> 3. Nasolacrimal duct   |
| <u>4</u> 2. Nasal cavity | <u>1</u> 4. Lacrimal canaliculi |

# Biology Study Packet The Brain Answers

**Padhraic Smyth**



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