

Ch. 16 The Special Senses - The Eye

1. Know the 3 layers (tunics) of the eyeball and the structures included in these tunics and their functions

Fibrous (most superficial)

2 Structures:

- **Sclera:** white of eye; continuation of dura mater of the brain; provides anchoring for extrinsic eye muscles
- **Cornea:** anterior clear part of eye where light enters
- **Limbus:** junction of sclera and cornea
 - **Sclera Venous Sinus:** anterior cavity of eye in limbus that drains aqueous humor

Vascular

- **Choroid:** another name for vascular layer; forms posterior 5/6 of vascular tunic, continuous with ciliary body, prevents light scatter
- **Ciliary Body:** ring of tissue that encircles the lens, made of smooth muscle
 - **Accommodation:** ciliary body contains ligaments that contract lens to focus lens; lens bulges so you can look at things close or far away
 - Makes aqueous humor that is going to bathe anterior cavity of eye
 - Suspensory ligaments
- **Iris:** colored part of eye, allows light to enter, smooth muscle
 - **Sphincter Pupillae Muscle (medial):** contraction = pupil size decreases, parasympathetic
 - **Dilator Pupillae Muscle (lateral):** contraction = pupil size increases, sympathetic
- **Pupil:** opening of iris, opening for light
 - allows aqueous humor to flow between two anterior chambers

Retina (most deep)

2 layers:

- **Pigmented Layer (deepest layer):** absorbs light and prevent scatter
- **Neural Layer:** nervous tissue, everything superficial to pigmented layer
 - **Photoreceptors**
 - Cones: color, high light
 - Rods: dim light
 - **Bipolar neurons**
 - sensory neurons
 - **Ganglion cell**
 - collection of cell bodies
 - their axons extend to the optic nerve
- **Ora Serrata:**
 - neural layer meets ciliary body
 - boundary between retina and ciliary body
- **Macula Lutea:**
 - yellow oval spot at the center of the retina (back of the eye), part of the retina that is responsible for sharp, detailed central vision
- **Fovea Centralis**
 - highest concentration of cones in retina; most acute vision area
- **Optic Disc:**
 - blind spot (where optic nerves exits the back of eyeball)
 - no rods and cones in this area

2. Know the accessory structures of the eye as discussed in class: eyelids and their structures, levator palpebrae superioris, ciliary glands

Anatomy Special Senses Study Guide

Charles M. Seiger



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