

ANATOMY ORGANIZATION OF THE EYE

Visual information is processed and propagated through the retina in a specific pathway before being sent to the brain via the optic nerve.

The eye is composed of several

key structures that work in unison to receive light and form an image on the retina, rotating and holding the eye in place.

Visual Information Pathway

- 1 Photoreceptor Cells
- 2 Bipolar Cells
- 3 Retinal Ganglion Cells
- 4 Brain

When light enters the eye, it must pass through several cell layers in the retina before reaching the light-sensitive proteins within the photoreceptors, where it is detected for vision.

1. **Conjunctiva:** Mucous membranes lining the eyelid and eyeball. Fuses with eyelids to prevent foreign objects from getting behind the eye.

2. **Cornea:** The outer, front transparent layer. It focuses incoming light by a fixed amount.

3. **Sclera:** The opaque, tough outer white layer. Prevents light from entering except through the cornea and pupil.

4. **Iris (Colored Part):** Contains muscles that contract/relax to determine pupil size, controlling the amount of light entering the eye.

5. **Lens:** Transparent layers whose shape changes to focus on objects at varying distances. This adjustment is called accommodation.

Anatomy & Physiology of the Eye

