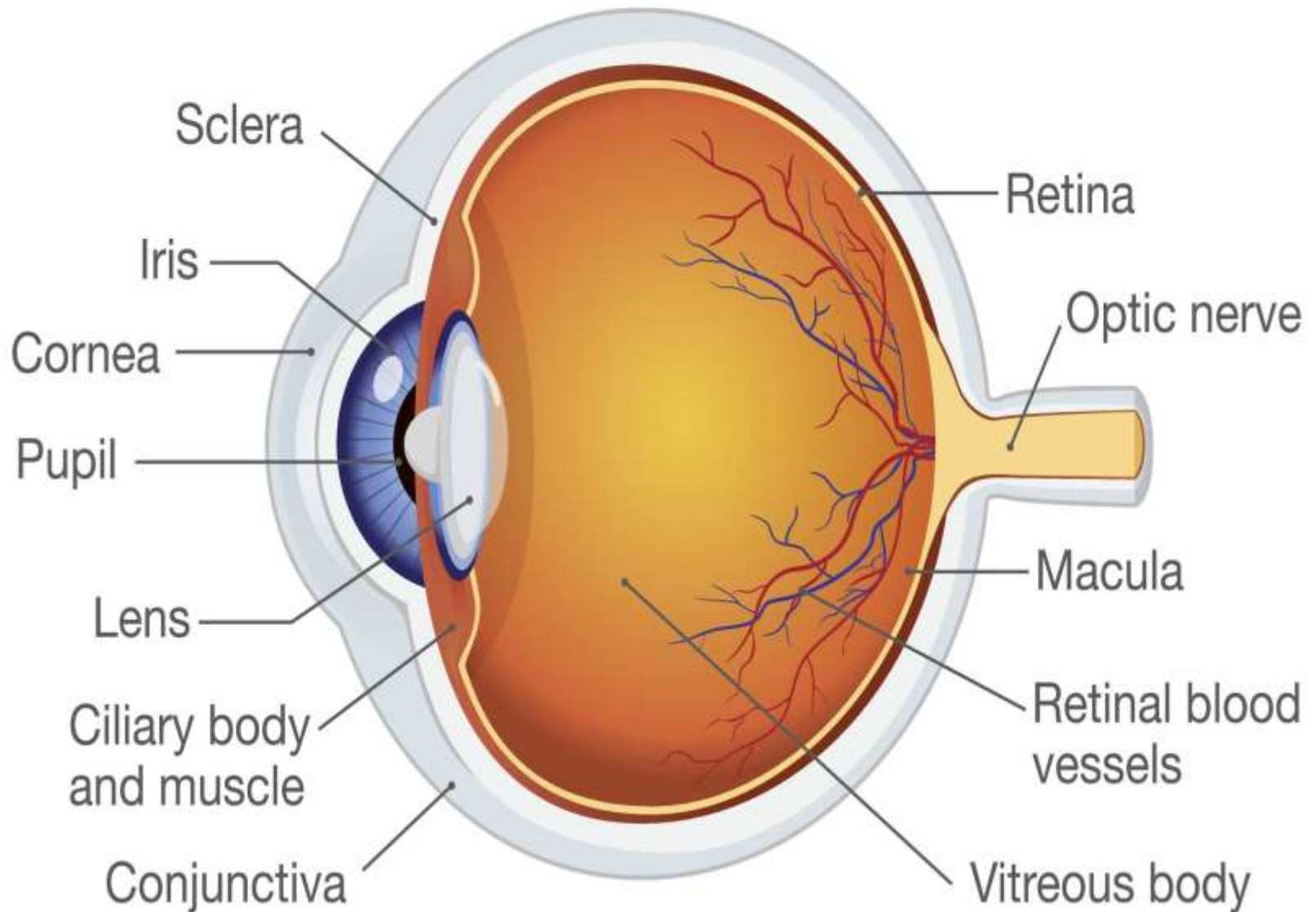
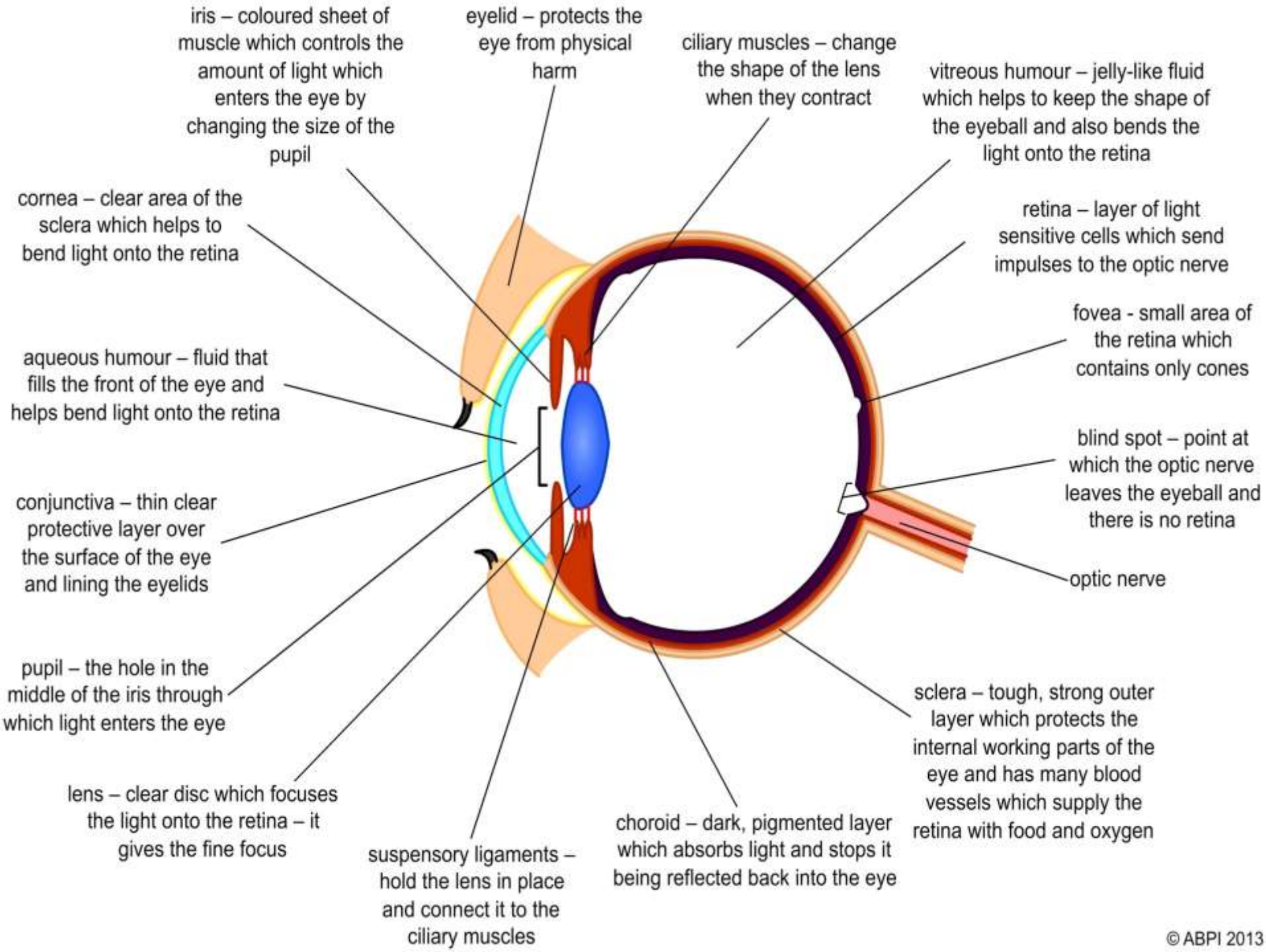


THE HUMAN EYE

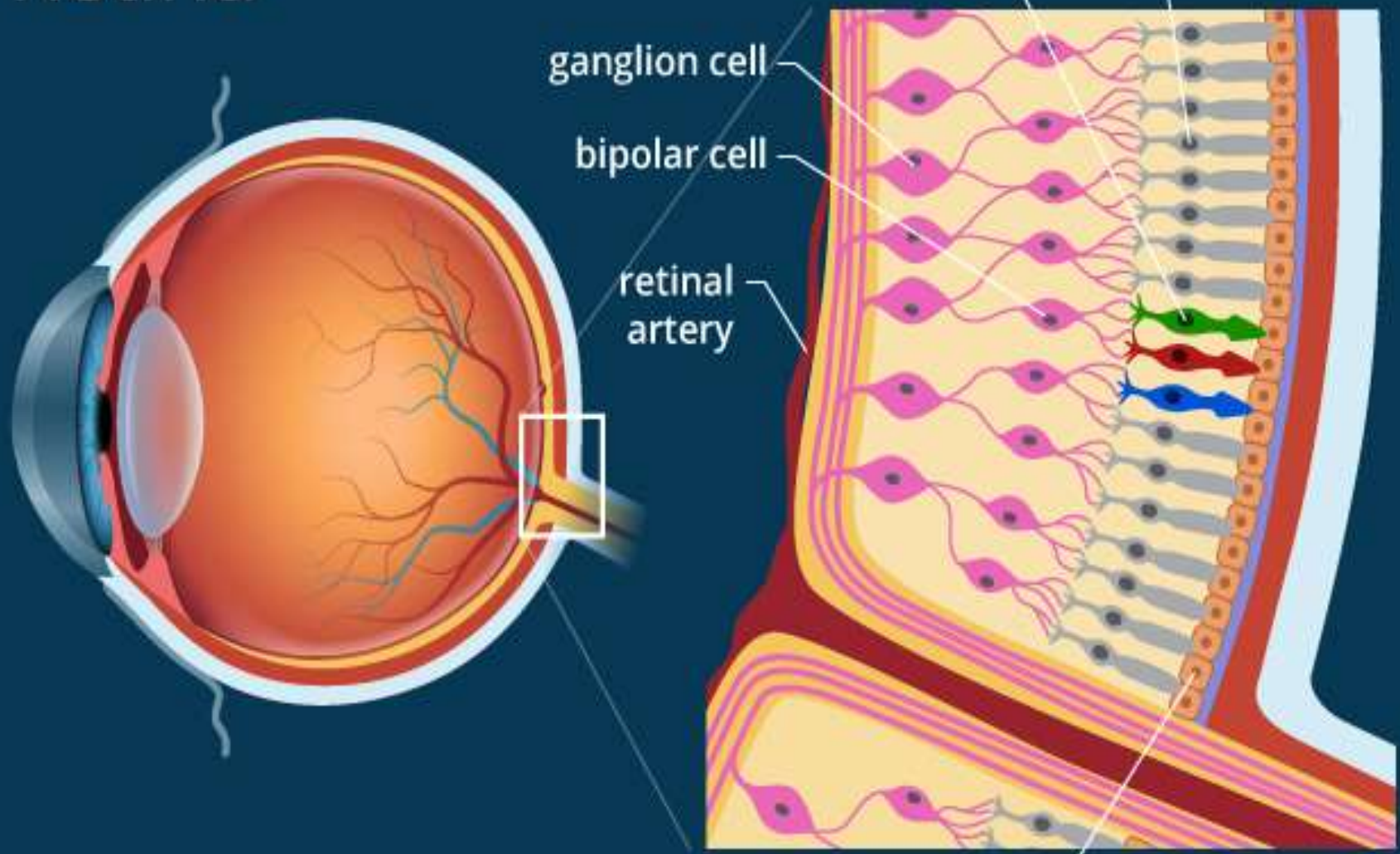


Human Eye Anatomy





Retina



retinal pigment epithelium (RPE)

ganglion cell

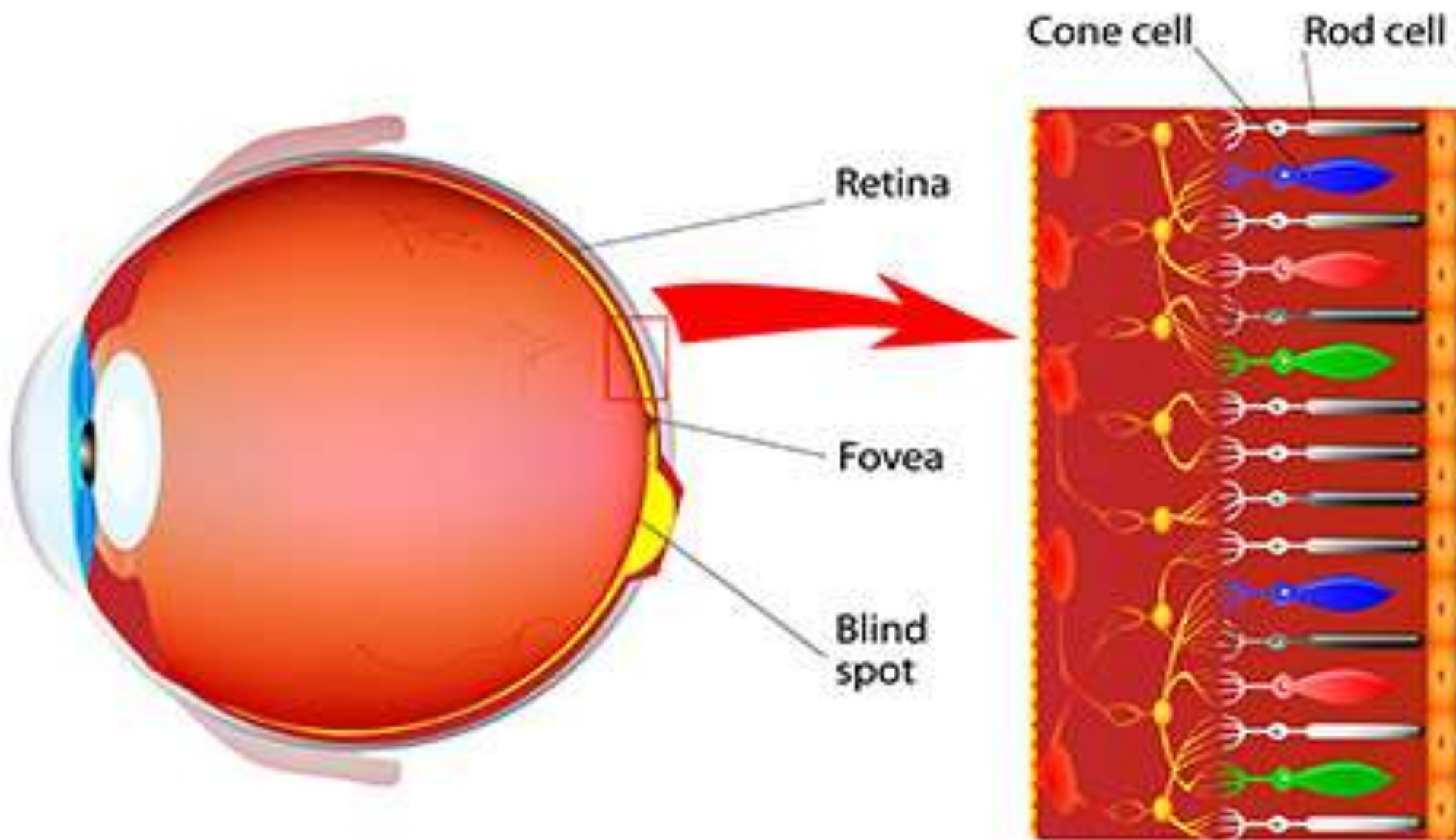
bipolar cell

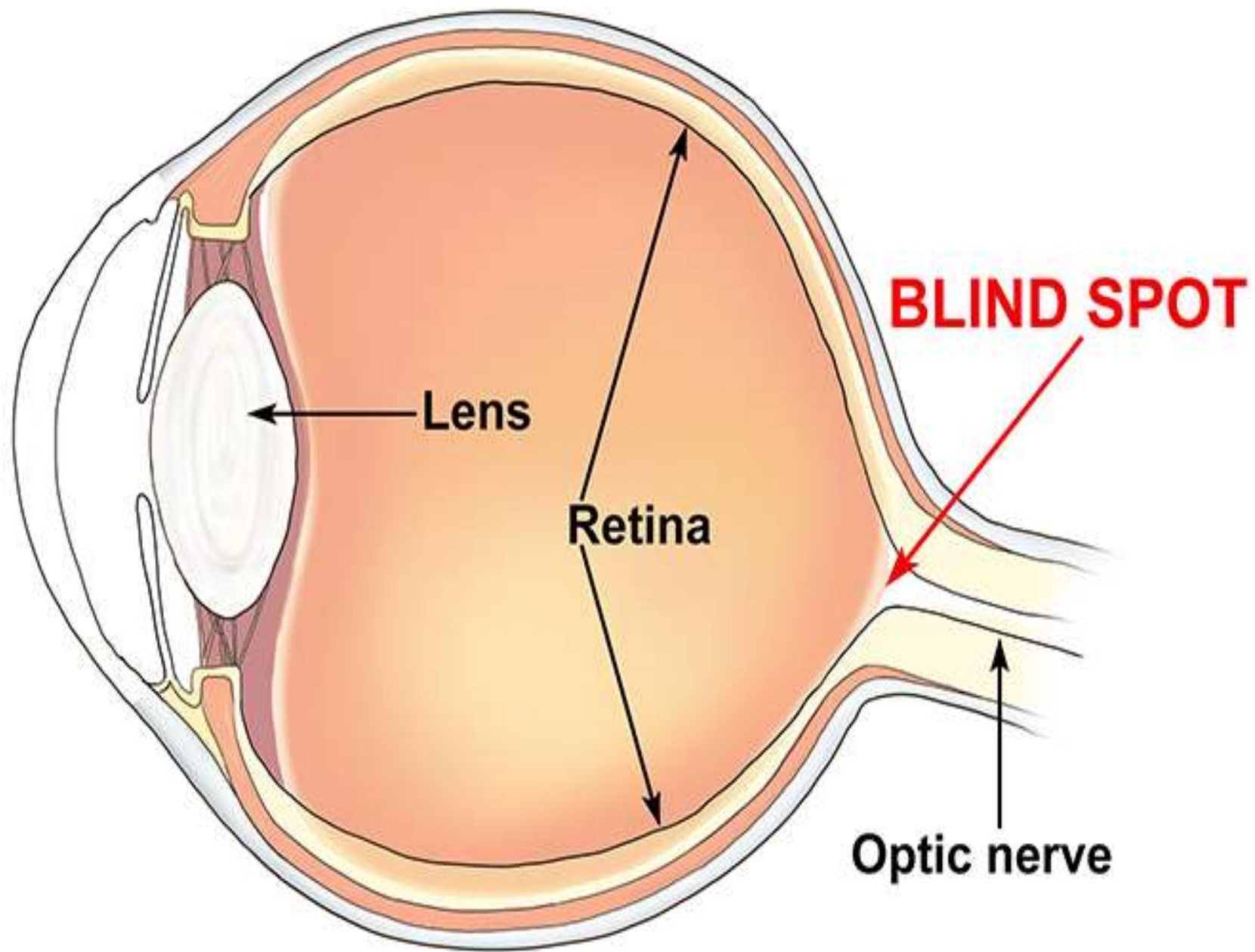
retinal artery

cone

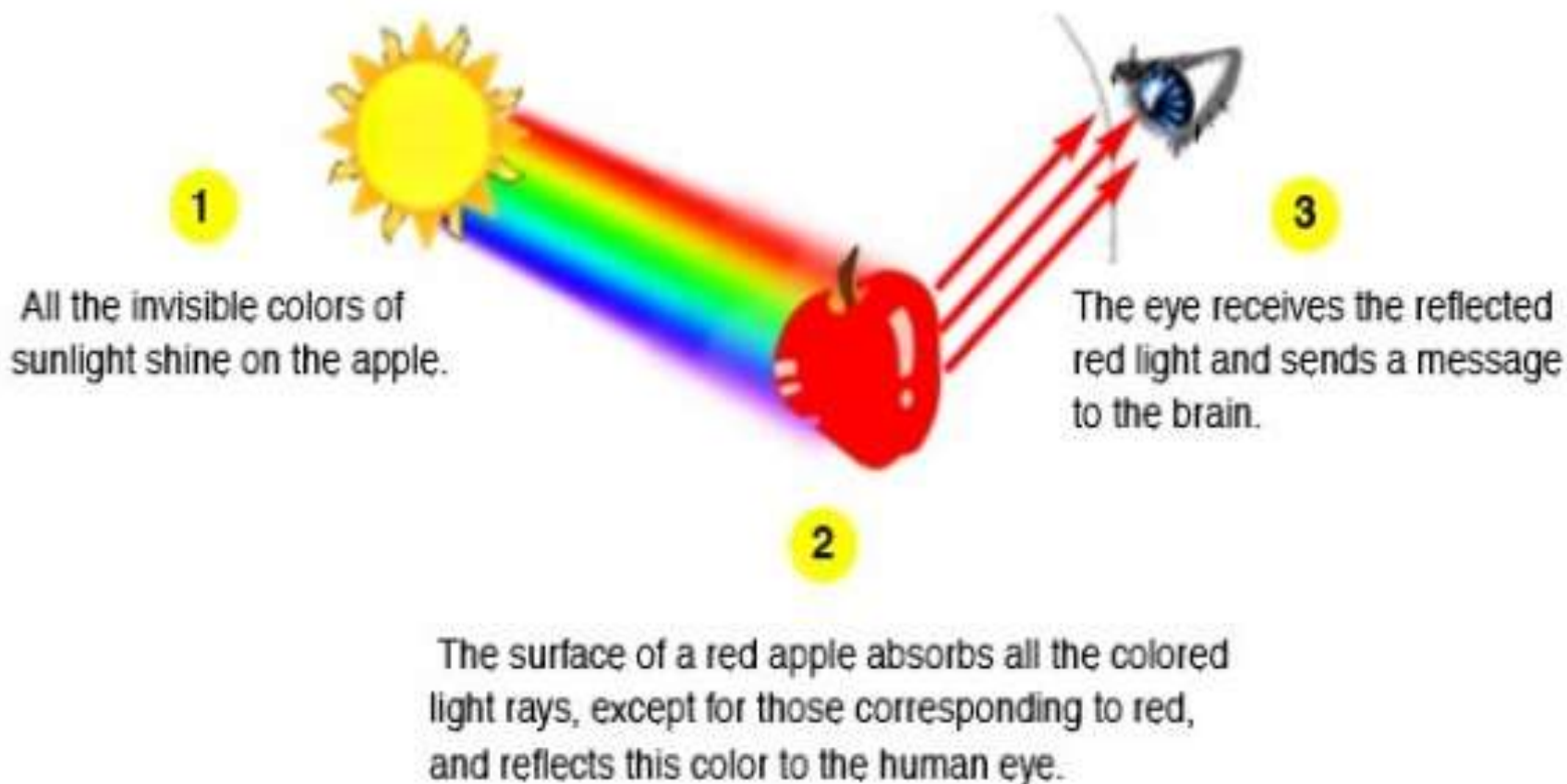
rod

Photoreceptor cell





How we see color:



The Human Eye

Ring of muscle: controls the shape of the lens - controls accommodation of the eye. When relaxed the lens is least curved - least powerful

Pupil: hole in the iris that lets the light in - like the aperture of a camera - automatically responds to light level

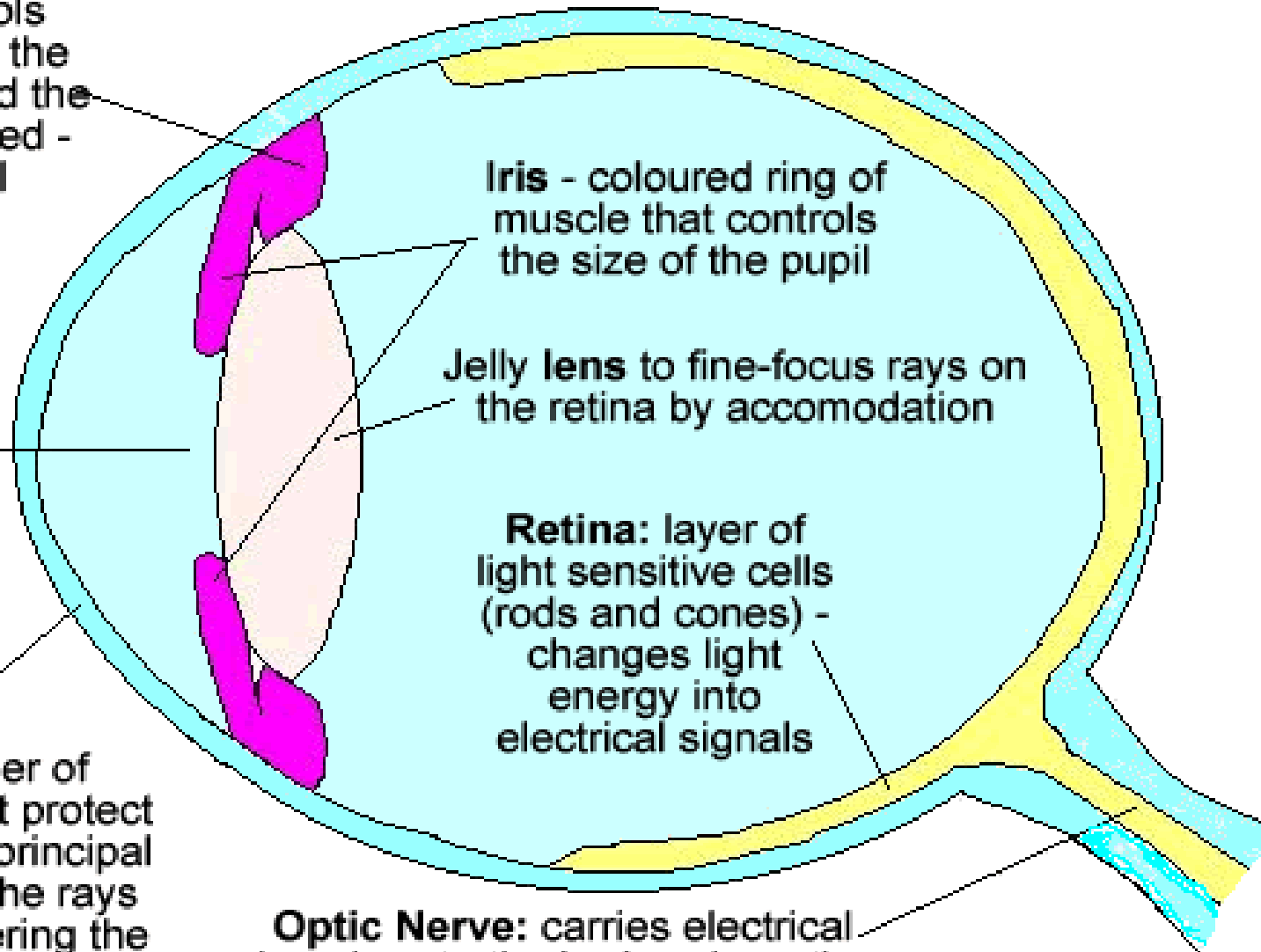
Cornea: thick layer of transparent cells that protect the eye and are the principal means of focusing the rays by refraction on entering the eye. Fine tuning of this focusing is done by the lens

Iris - coloured ring of muscle that controls the size of the pupil

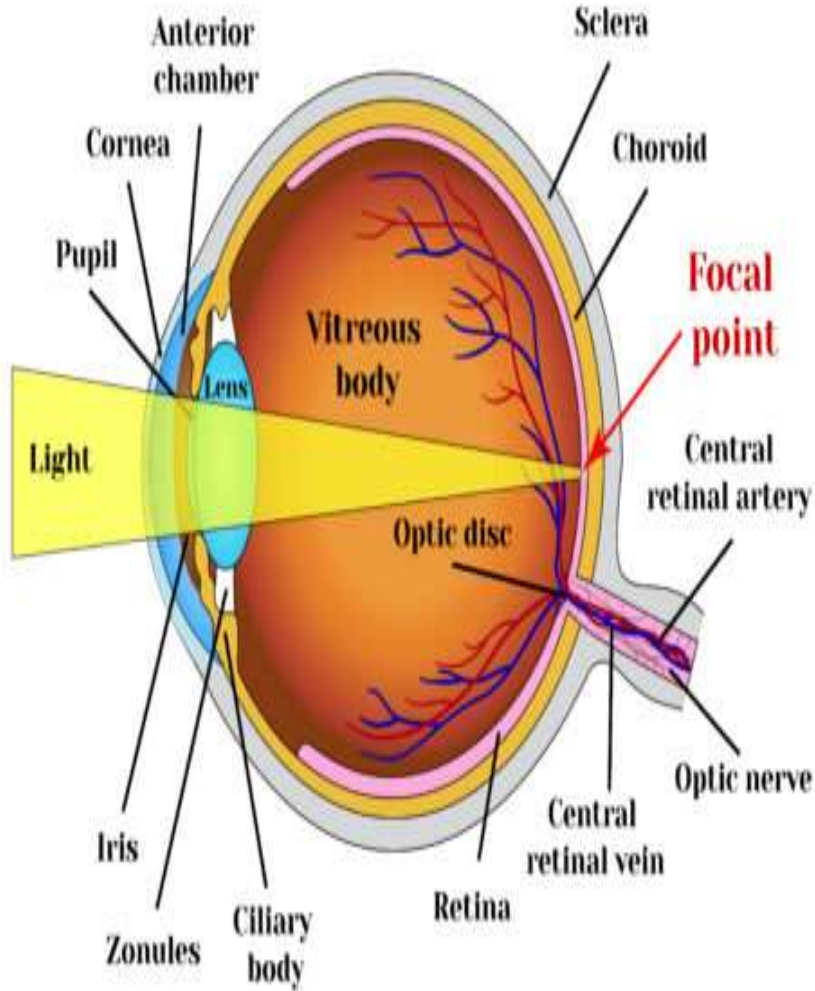
Jelly lens to fine-focus rays on the retina by accommodation

Retina: layer of light sensitive cells (rods and cones) - changes light energy into electrical signals

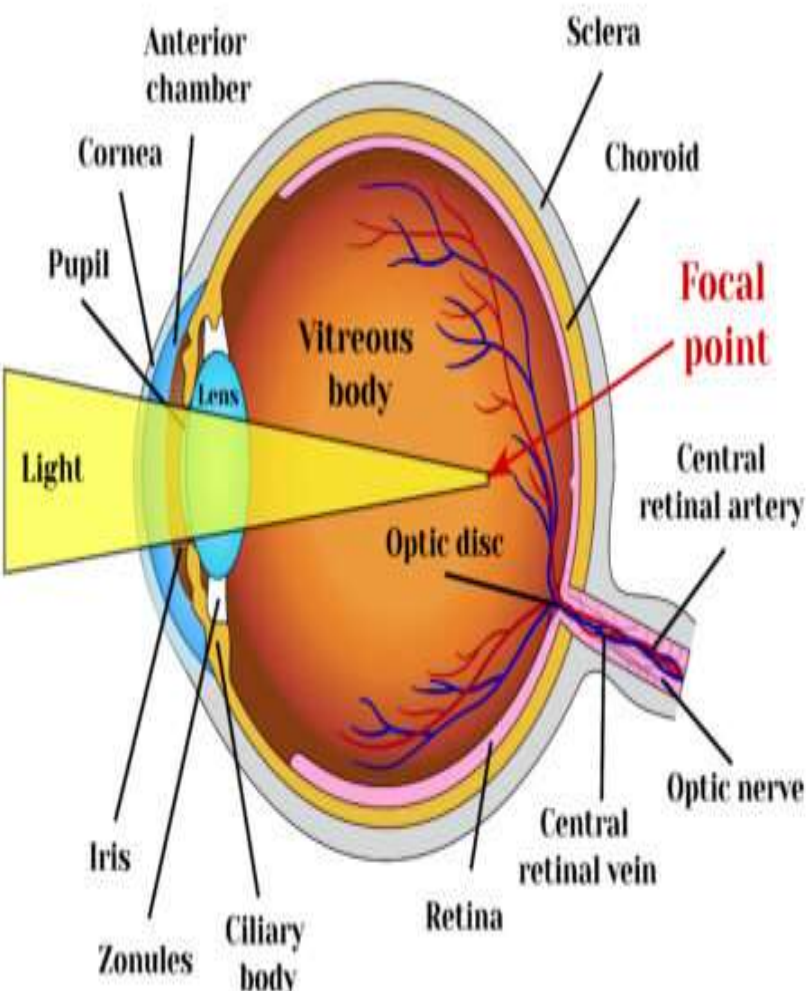
Optic Nerve: carries electrical impulses to the brain, where the image information is processed



Normal vision



Myopia





Thank
You