

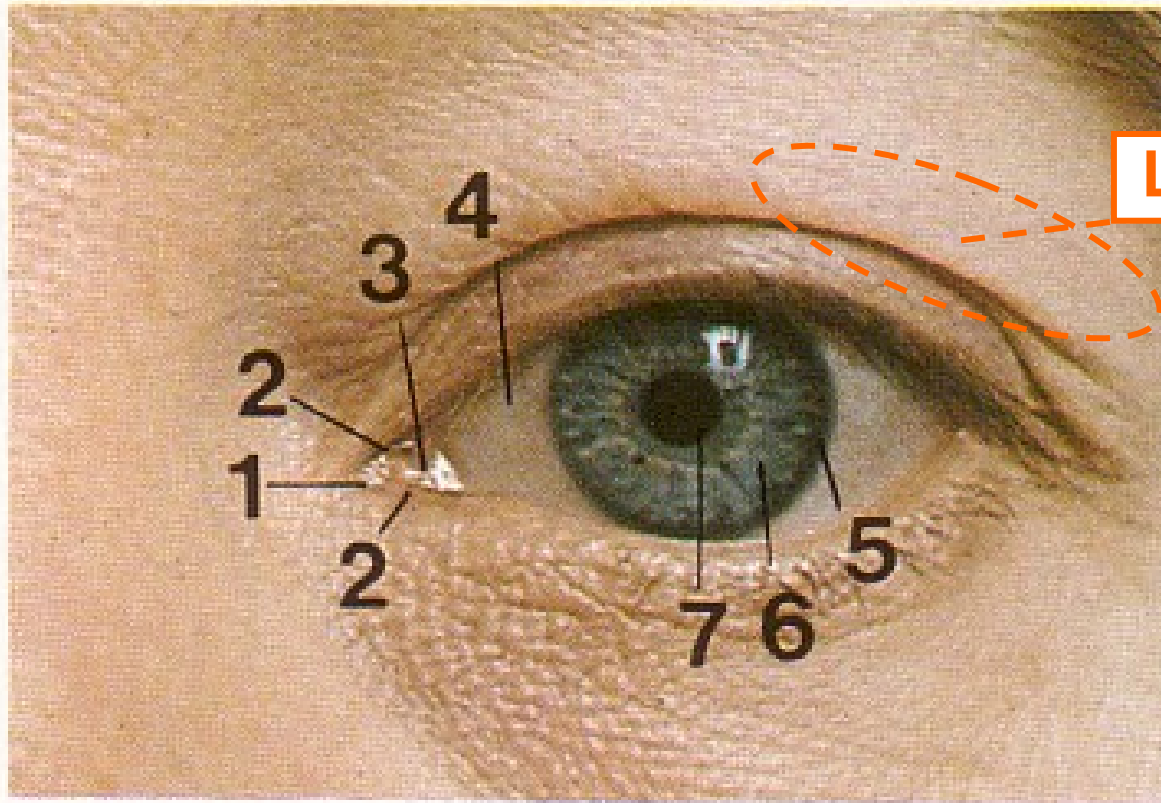


*...Fun last lab for me!
How happy I am to see!!*

BI 358 Discussion 11: Vision Lab w/Eye Dissections

- I. Announcements*** Final papers due next Tuesday, March 18th, in Pat's box, 77 Klamath < 5 pm. Q?
- II. Anatomy & Physiology of the Eye***
LN Dierks & RE Hammond, Carolina Biological 1980
CC Francis & AH Martin 1975
RMH McMinn & RT Hutchings 1977
DA Morton, KD Peterson & KH Albertine 2007
LS Sherwood 2006
- III. Lab Tests + Eye Dissections***

Eye (L) Surface Anatomy



A

Lacrimal gland!

A Left eye

- 1 Lacrimal caruncle
- 2 Lacrimal papilla
- 3 Plica semilunaris
- 4 Sclera
- 5 Limbus (corneoscleral junction)
- 6 Iris
- 7 Pupil

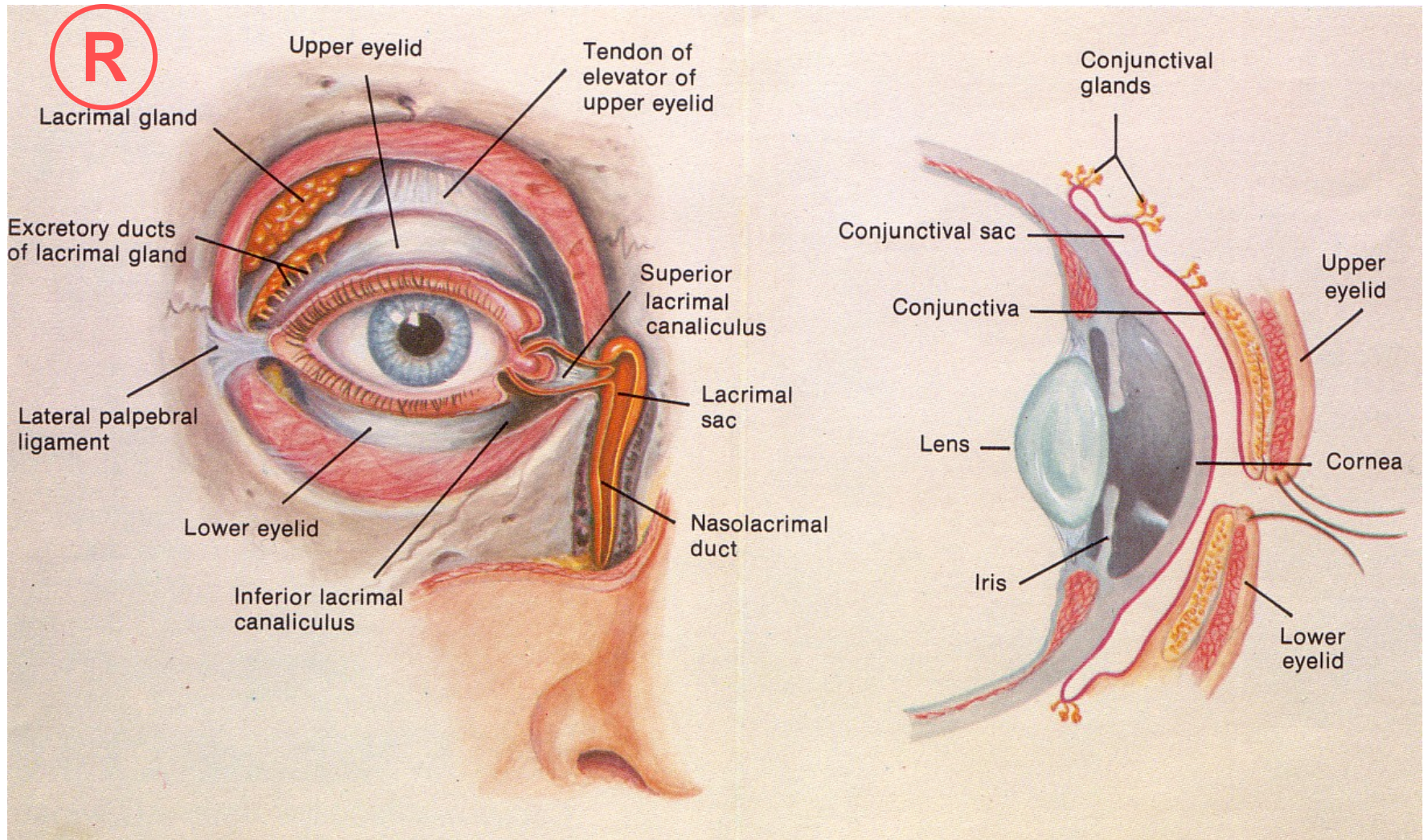
Caruncle = L. wart

Papilla = L. nipple

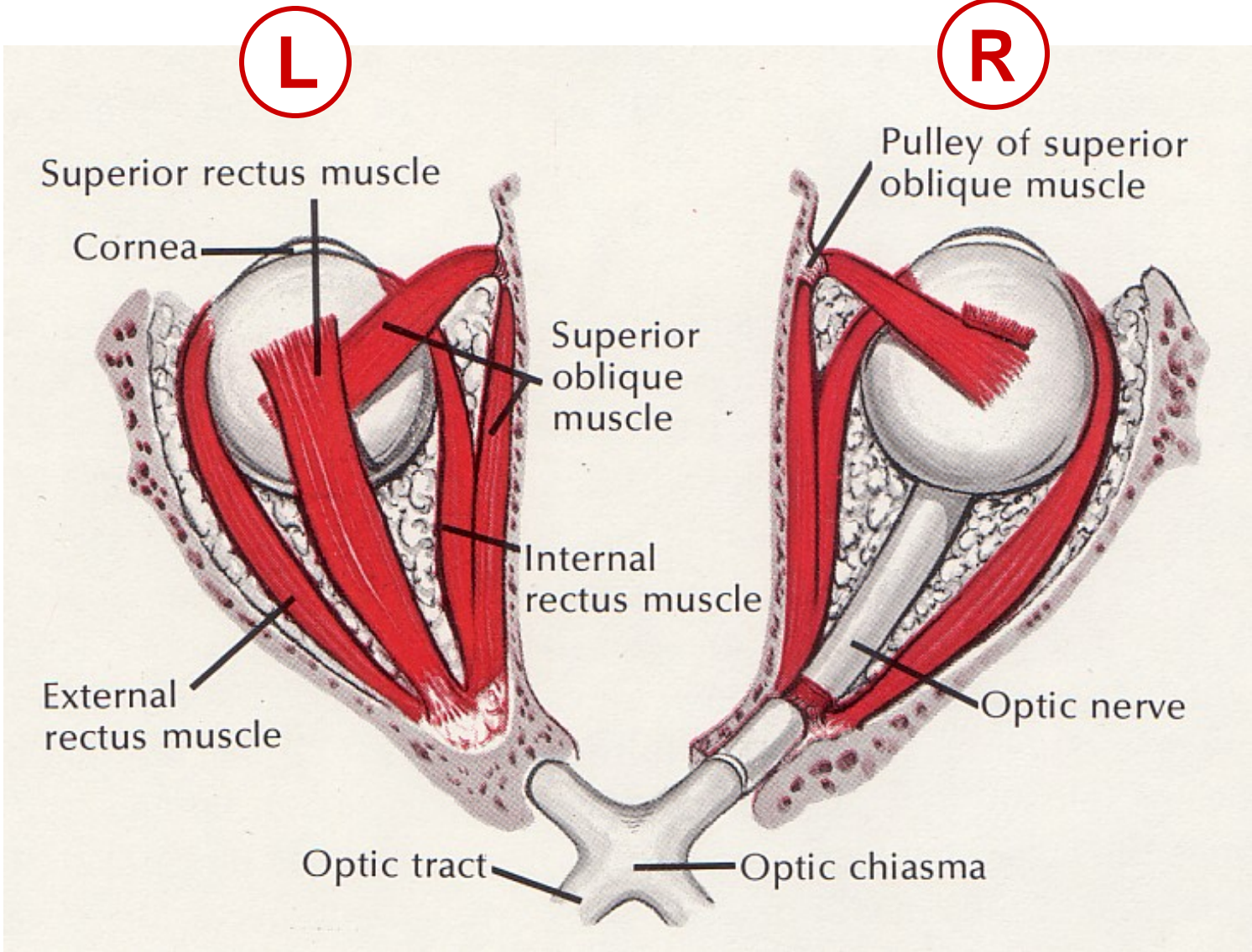
Sclera = L. hard/white

Limbus = L. margin/border

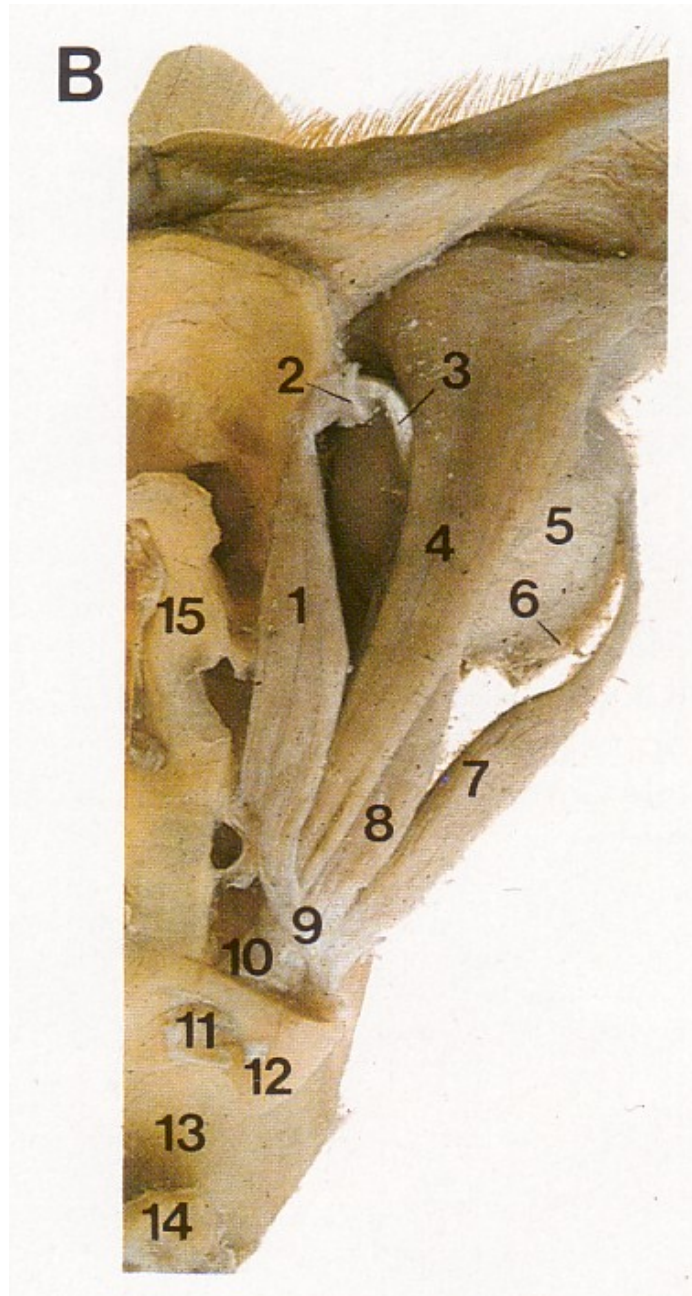
Eye Drops Out Nose? Why?



Eye Muscles Superior View

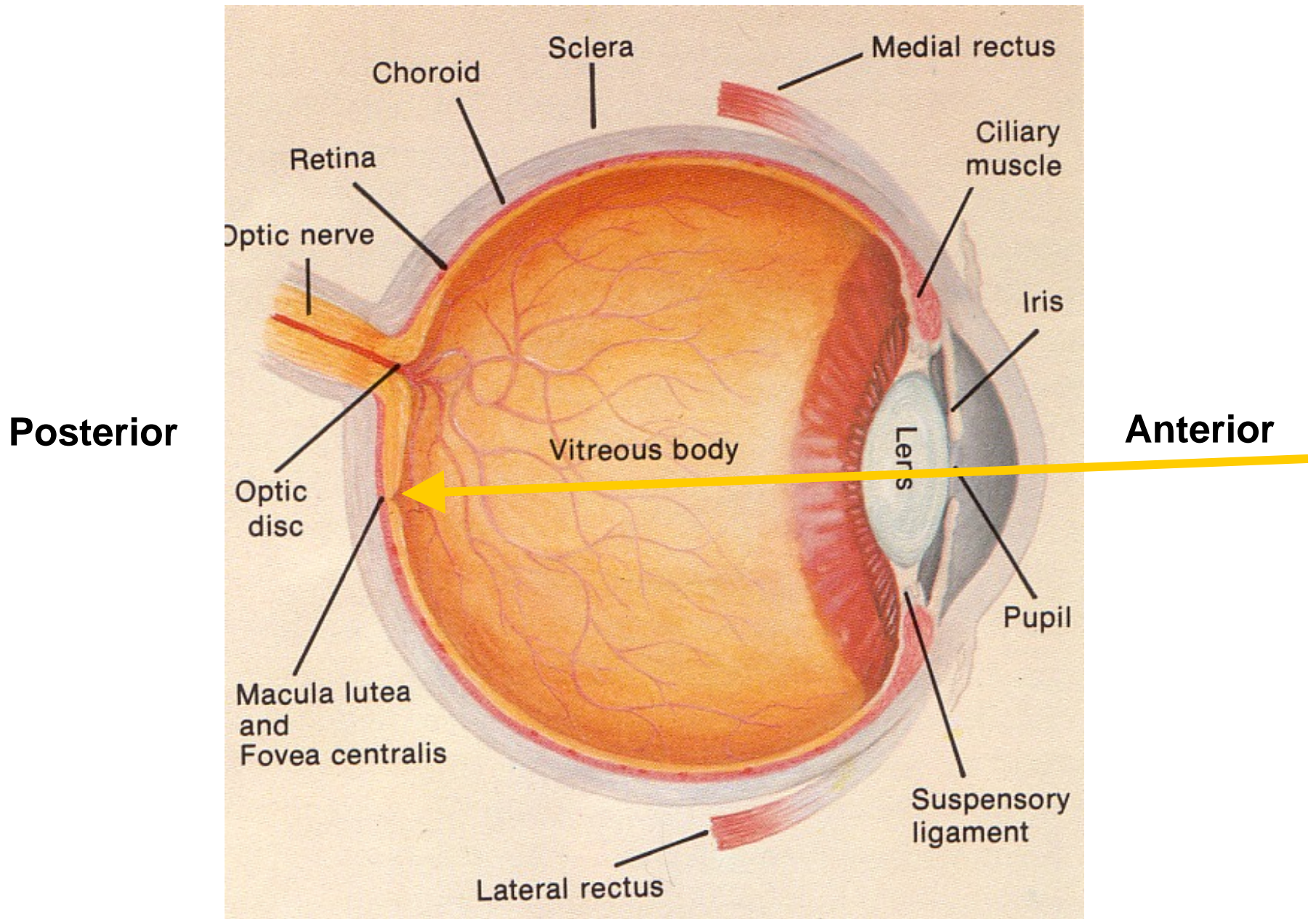


Eye (R) Superior View Dissection

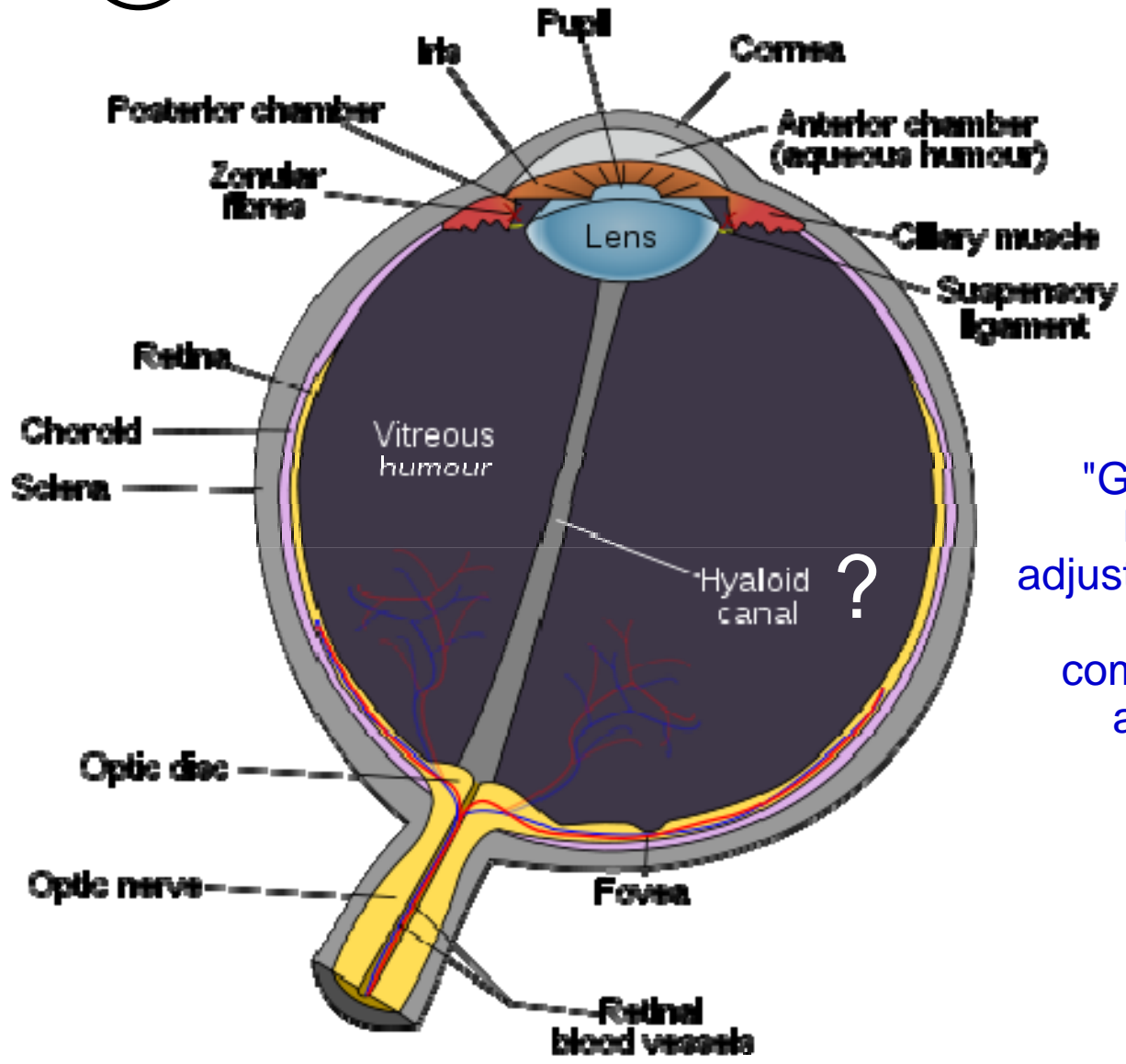


- 1 Superior oblique — **Gr. pulley!**
- 2 Trochlea ←
- 3 Tendon of superior oblique
- 4 Levator palpebrae superioris
- 5 Eyeball
- 6 Inferior oblique
- 7 Lateral rectus
- 8 Superior rectus
- 9 Tendinous ring
- 10 Optic nerve
- 11 Optic canal
- 12 Anterior clinoid process
- 13 Sella turcica (pituitary fossa)
- 14 Posterior clinoid process
- 15 Ethmoidal air cells
- 16 Inferior rectus

Eye (R) Superior View



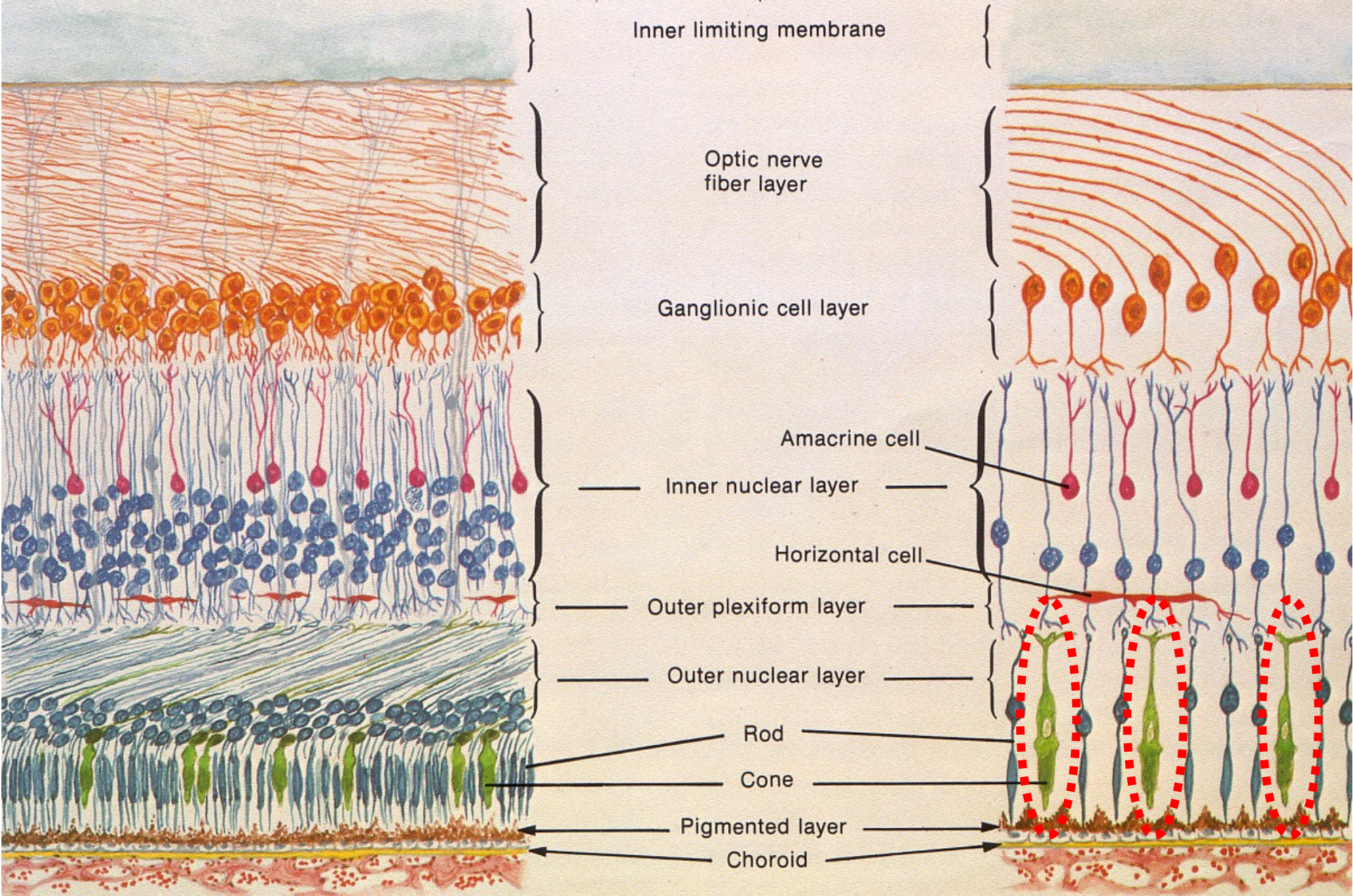
Eye (R) Superior View Horizontal Dissection

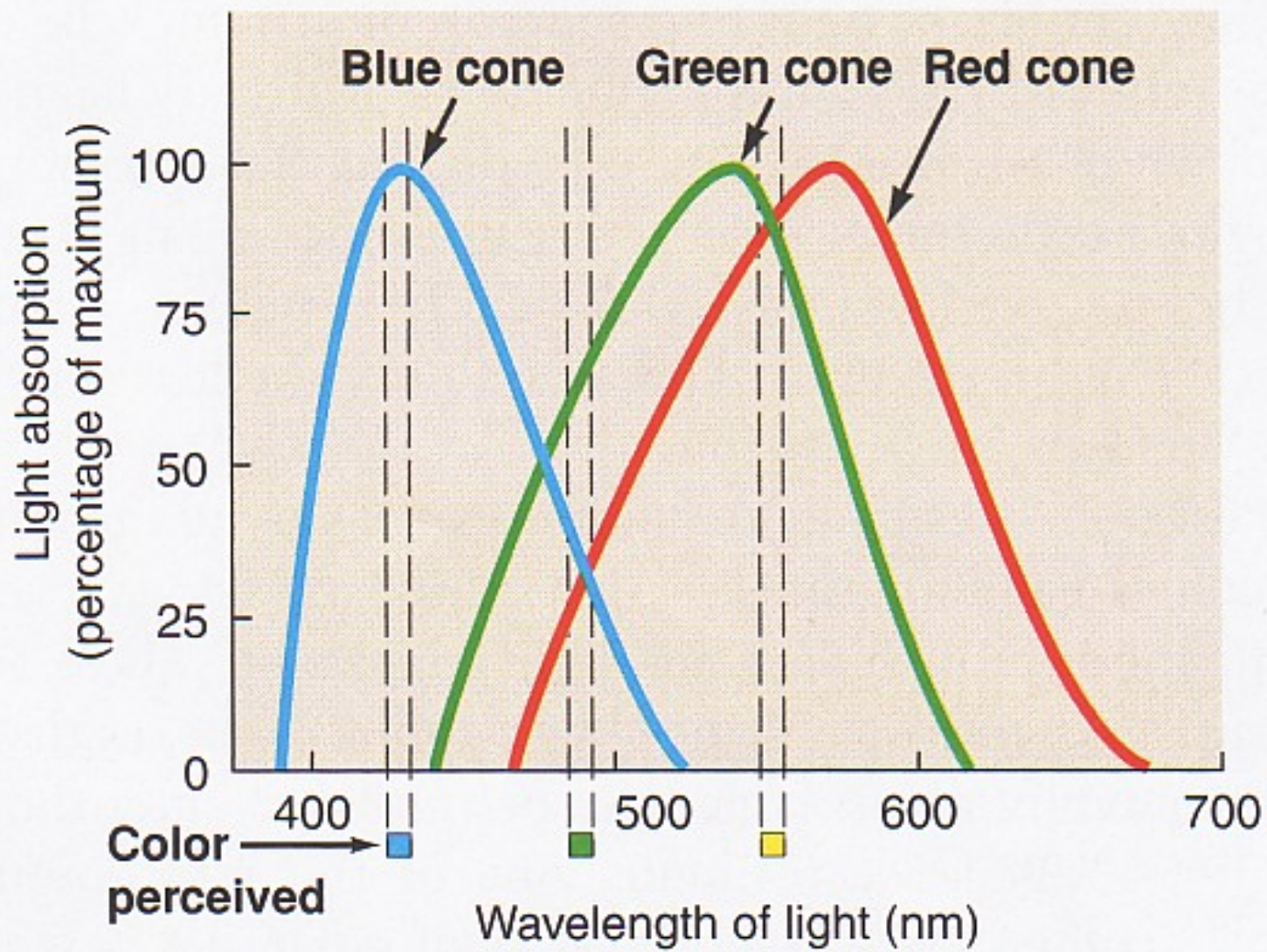


"Glass-like" canal:
Fetal remnant &
adjustable resevoir of
mobile liquid to
compensate during
accommodation!

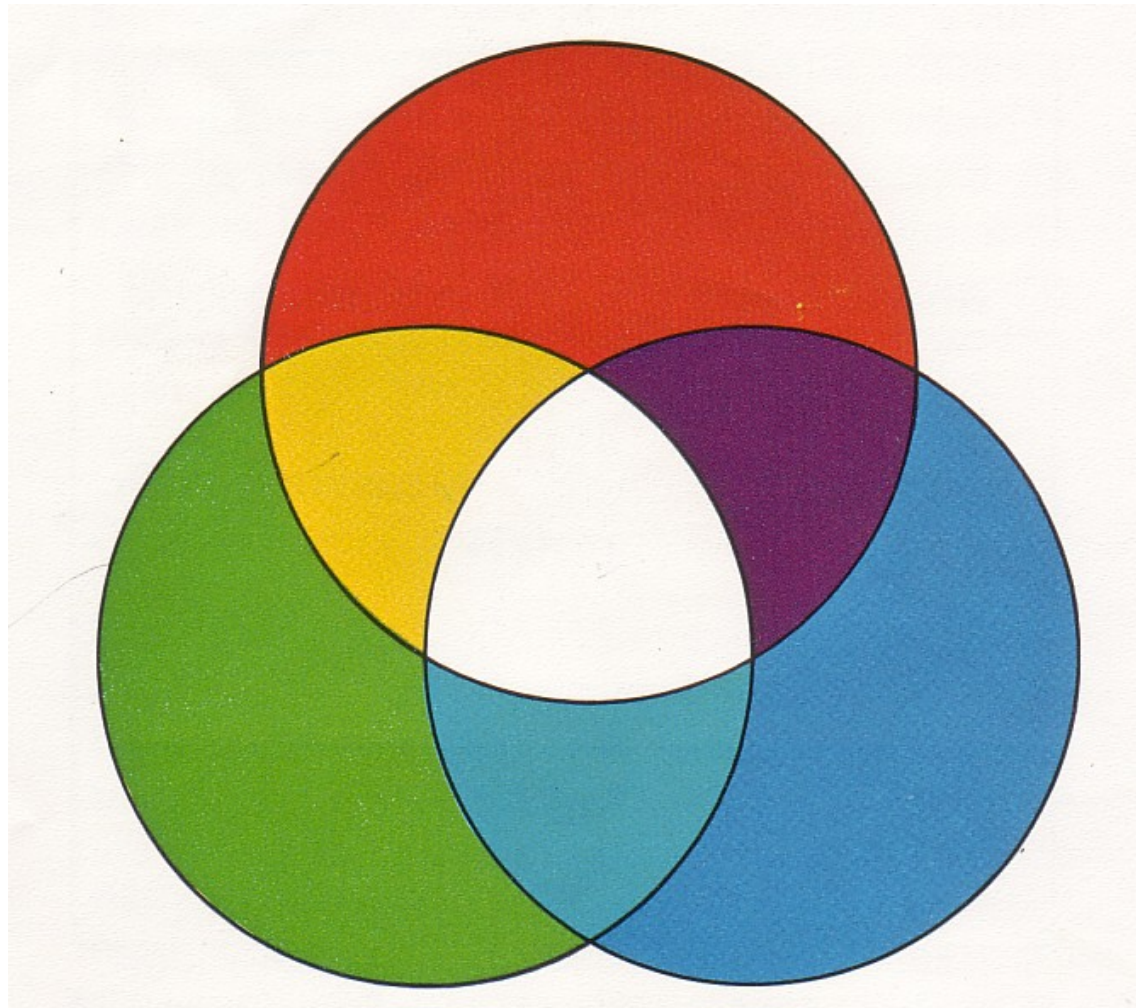
Retinal Layers

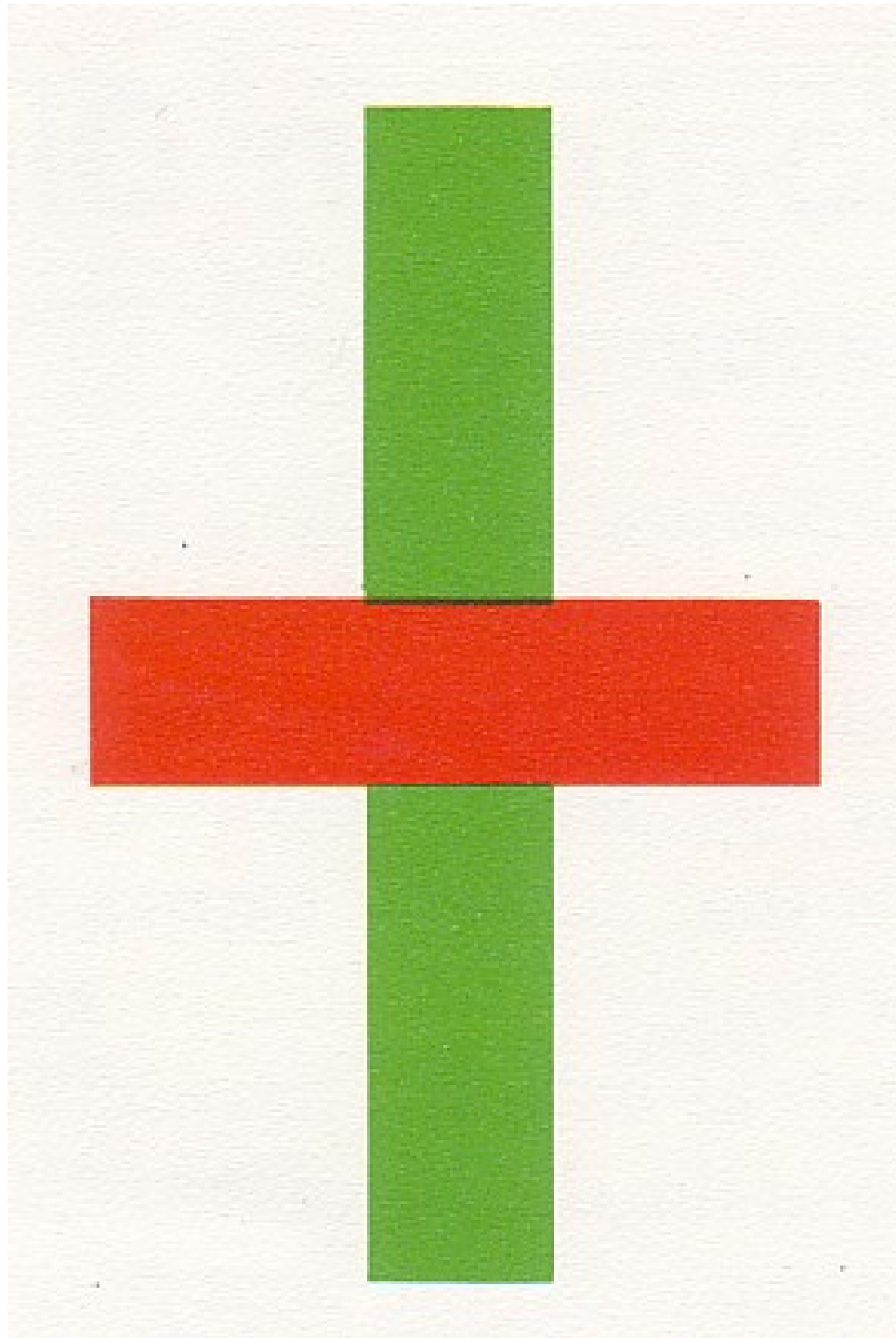
Light





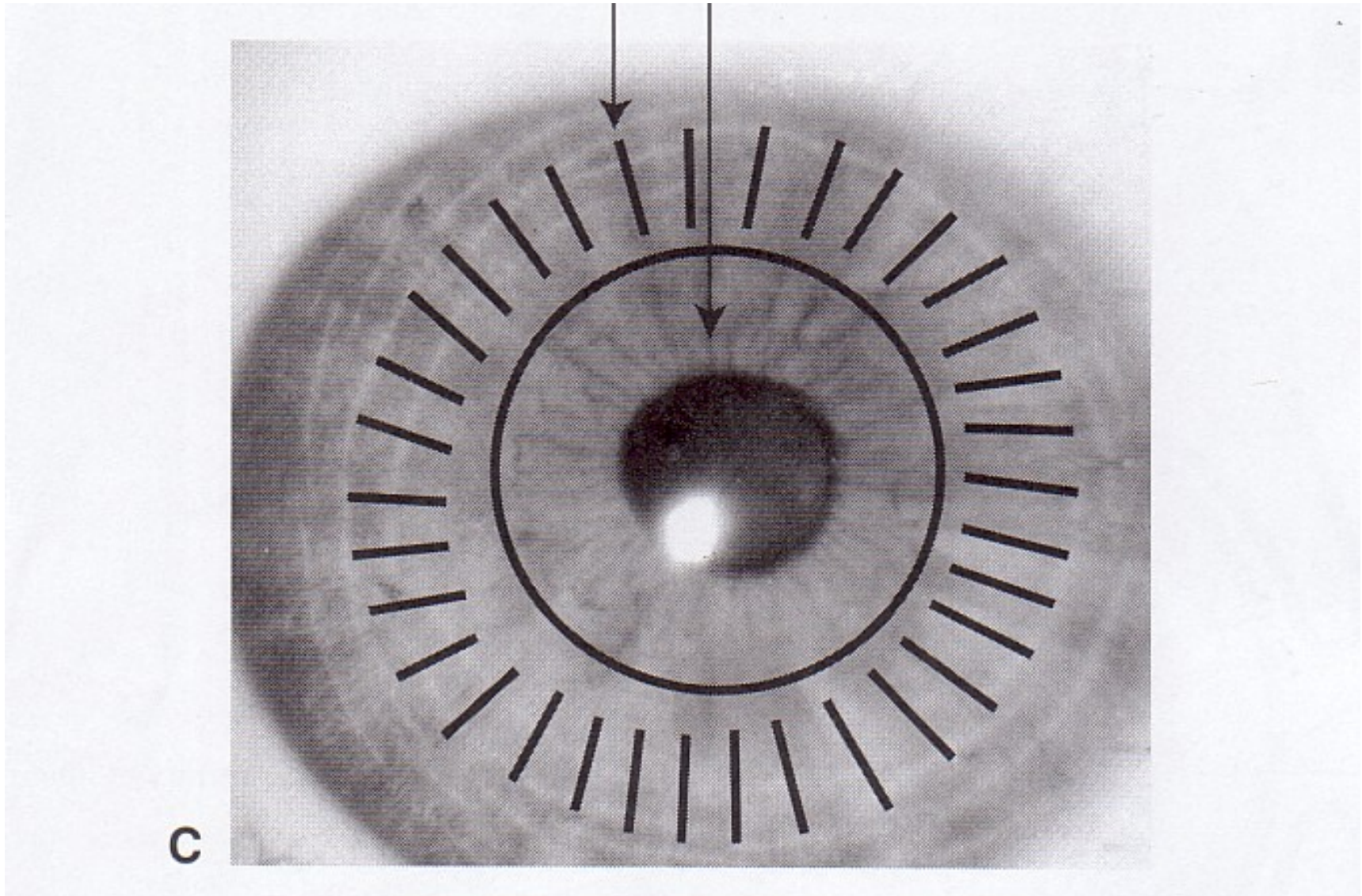
***Intermediate Colors Are Produced
When 1^o Colors Are Superimposed***



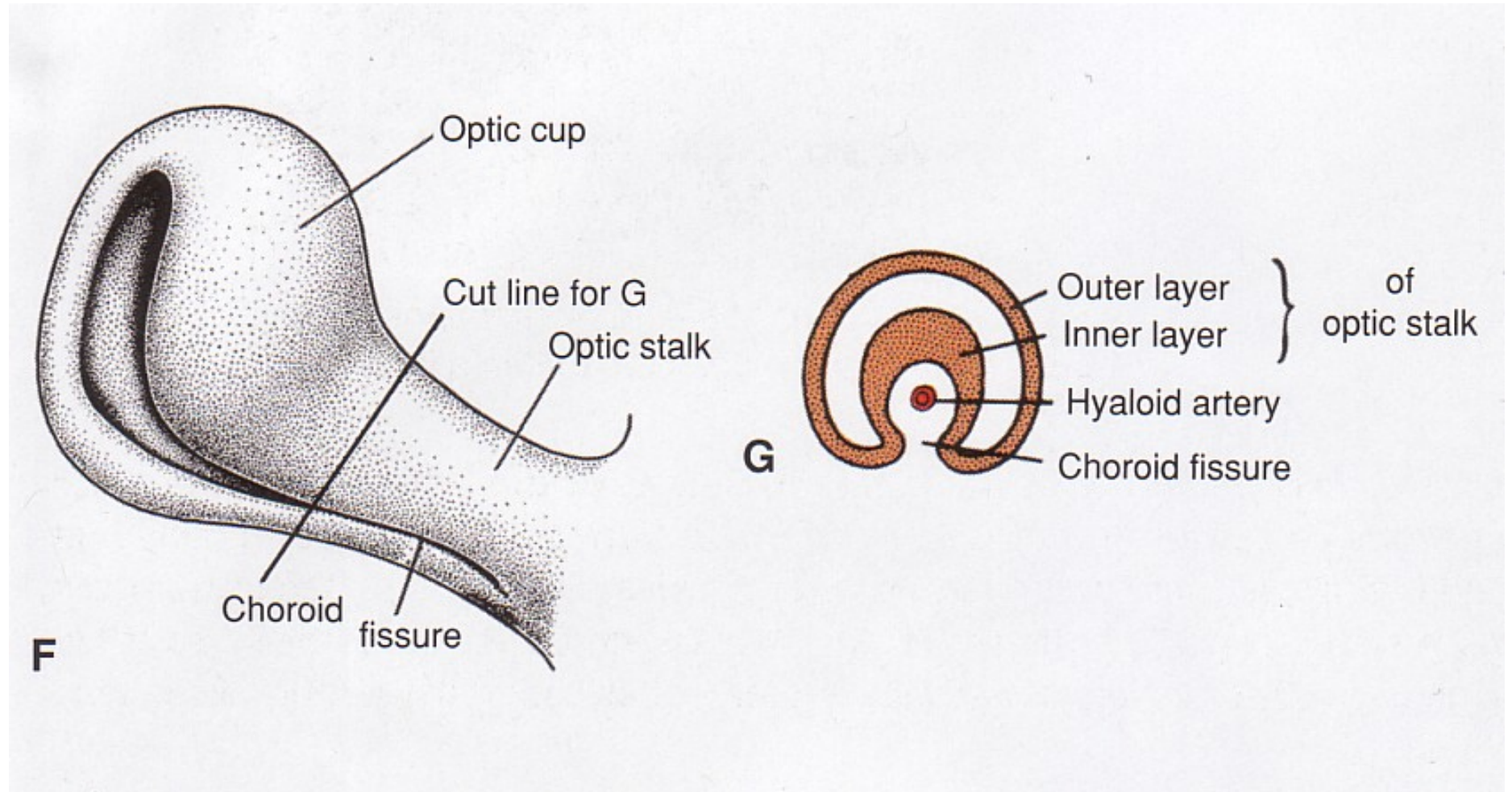


Smooth Muscles of the Iris

Dilator Sphincter

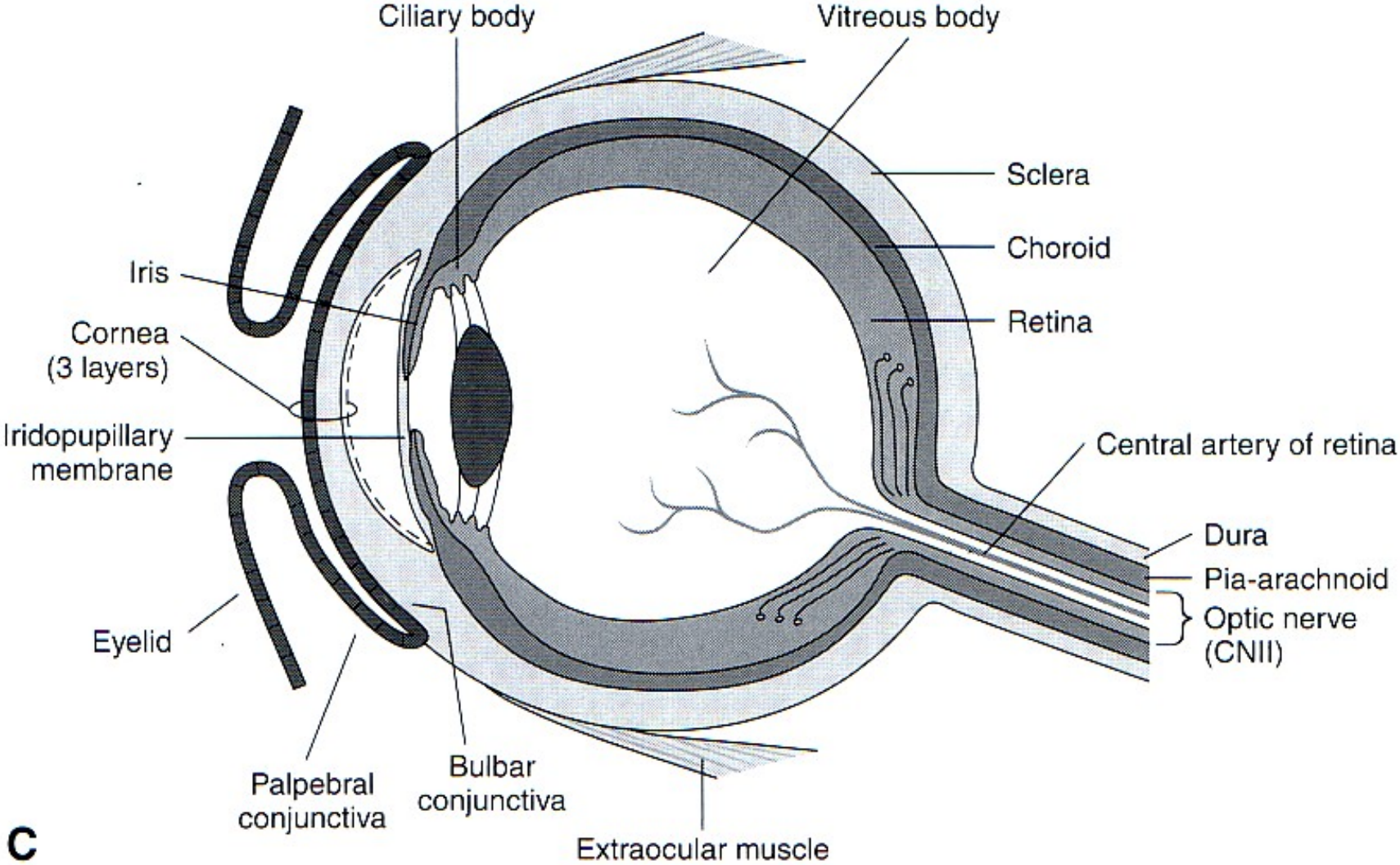


The Optic Cup & Optic Stalk are Evaginations of the Diencephalon

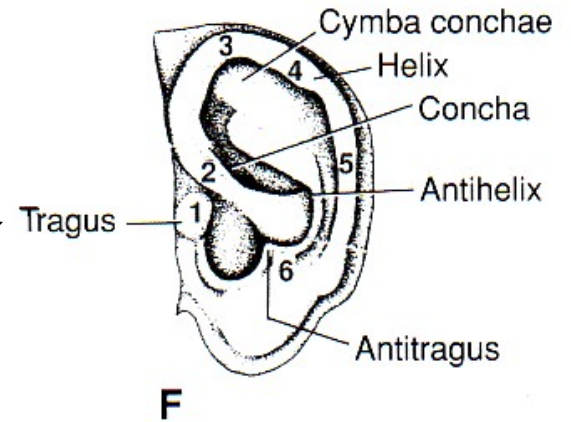
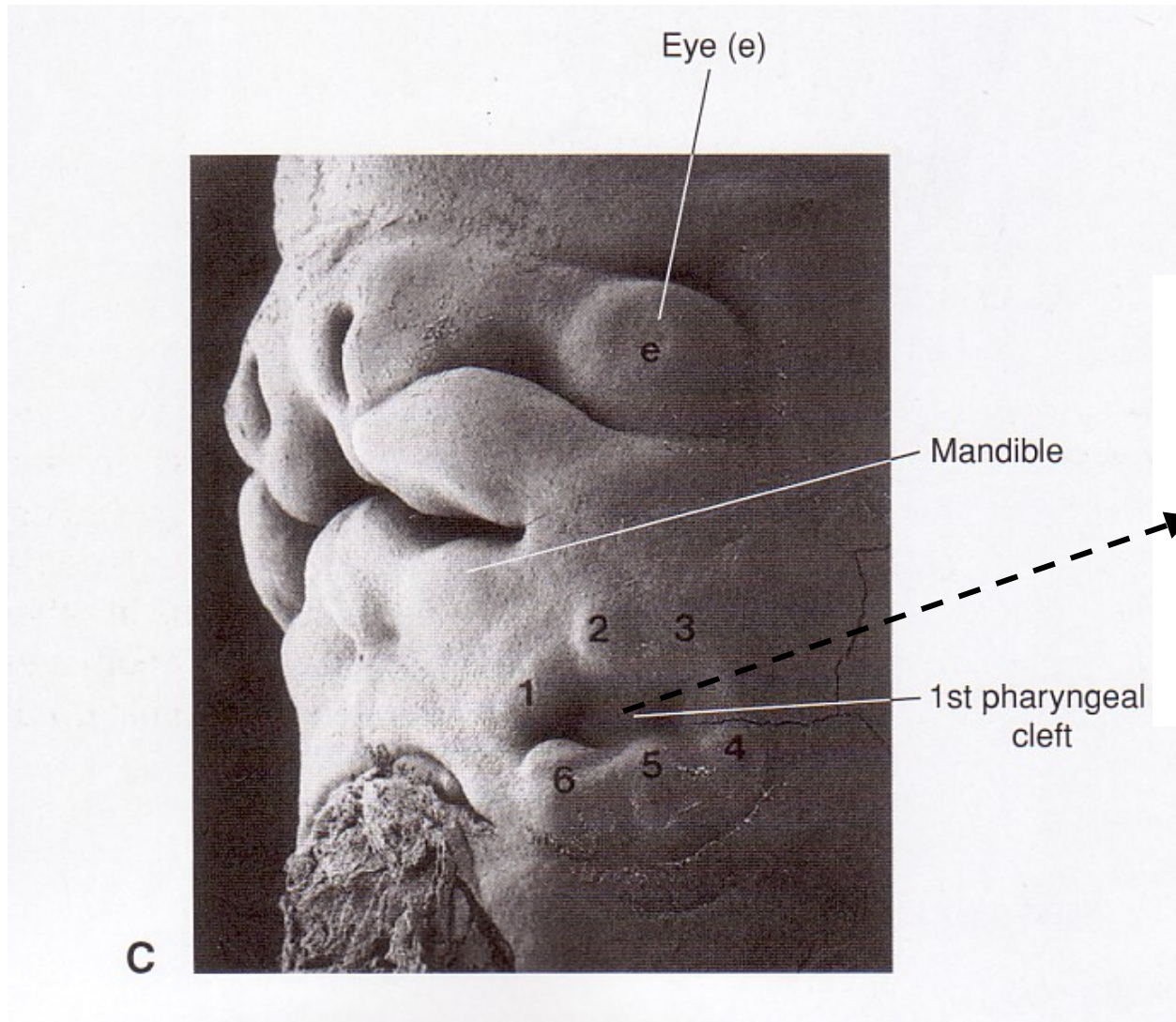


“The Eye Backs Out of the Brain”

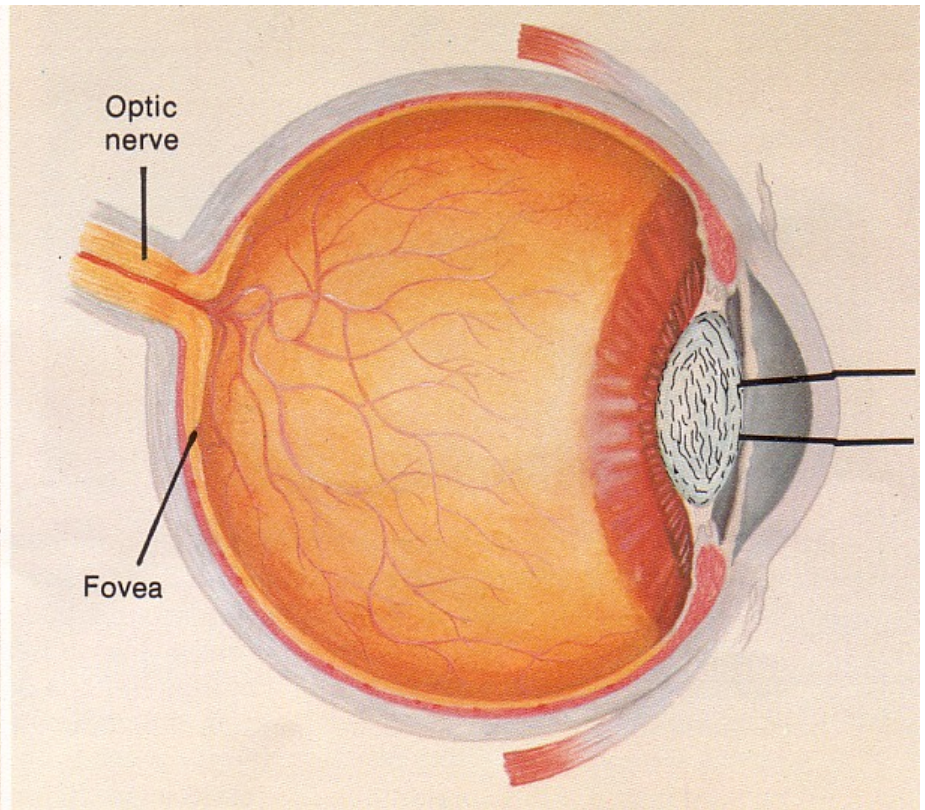
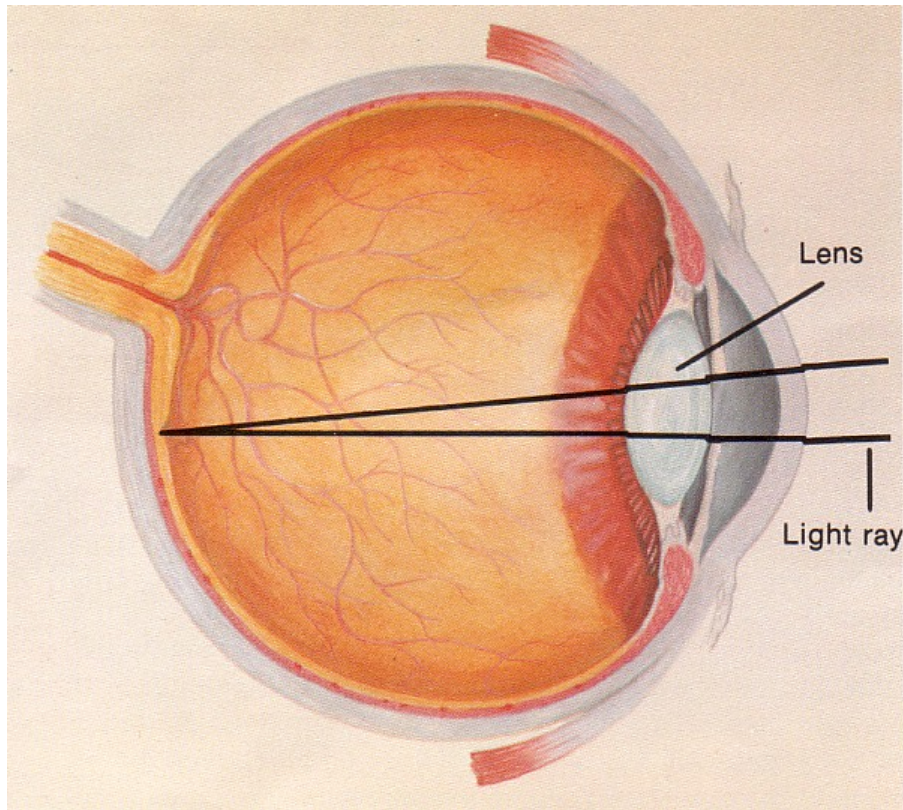
Conjunctiva folds back on itself!



Eye & External Ear Formation



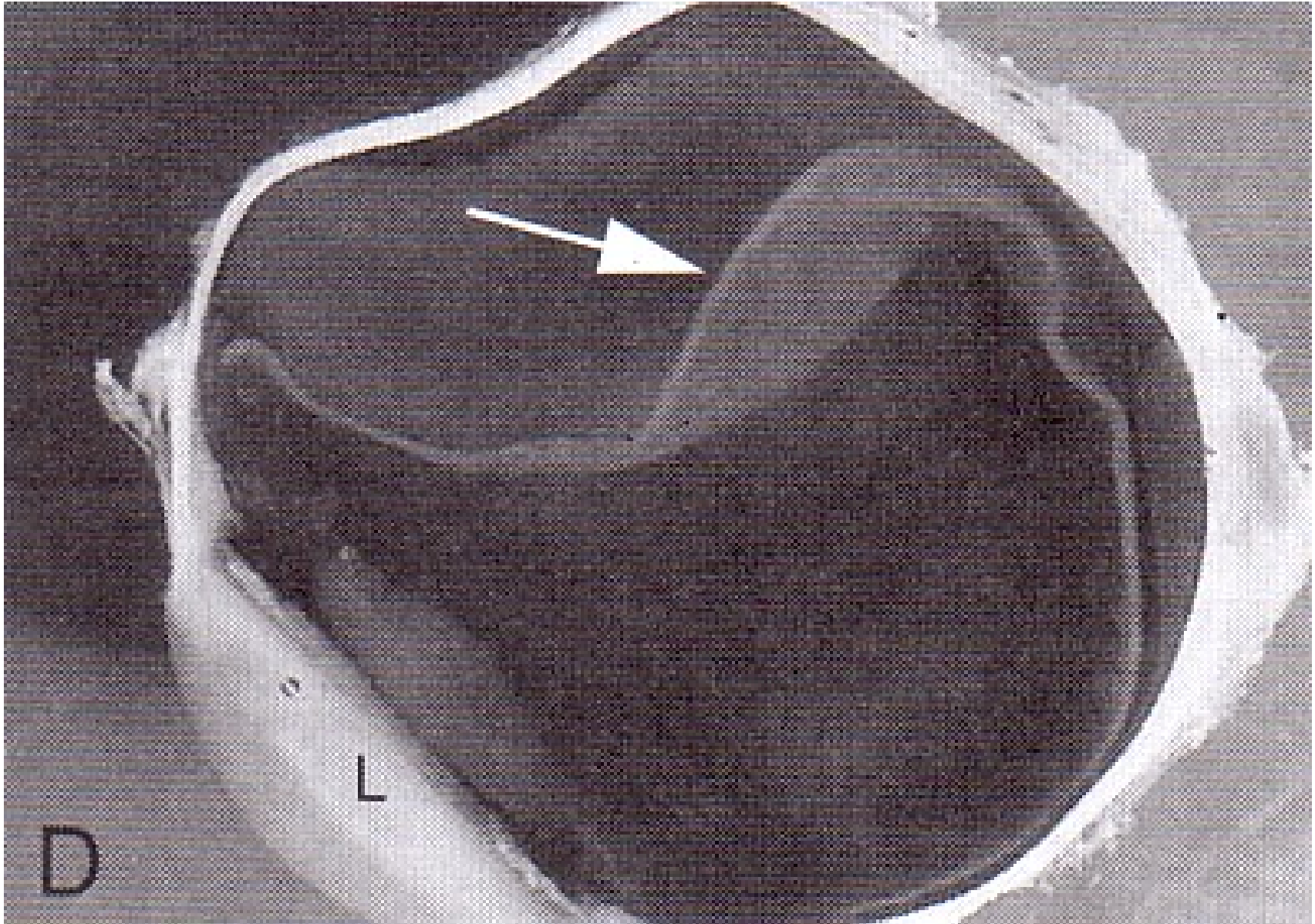
Normal vs. Cataract Lens



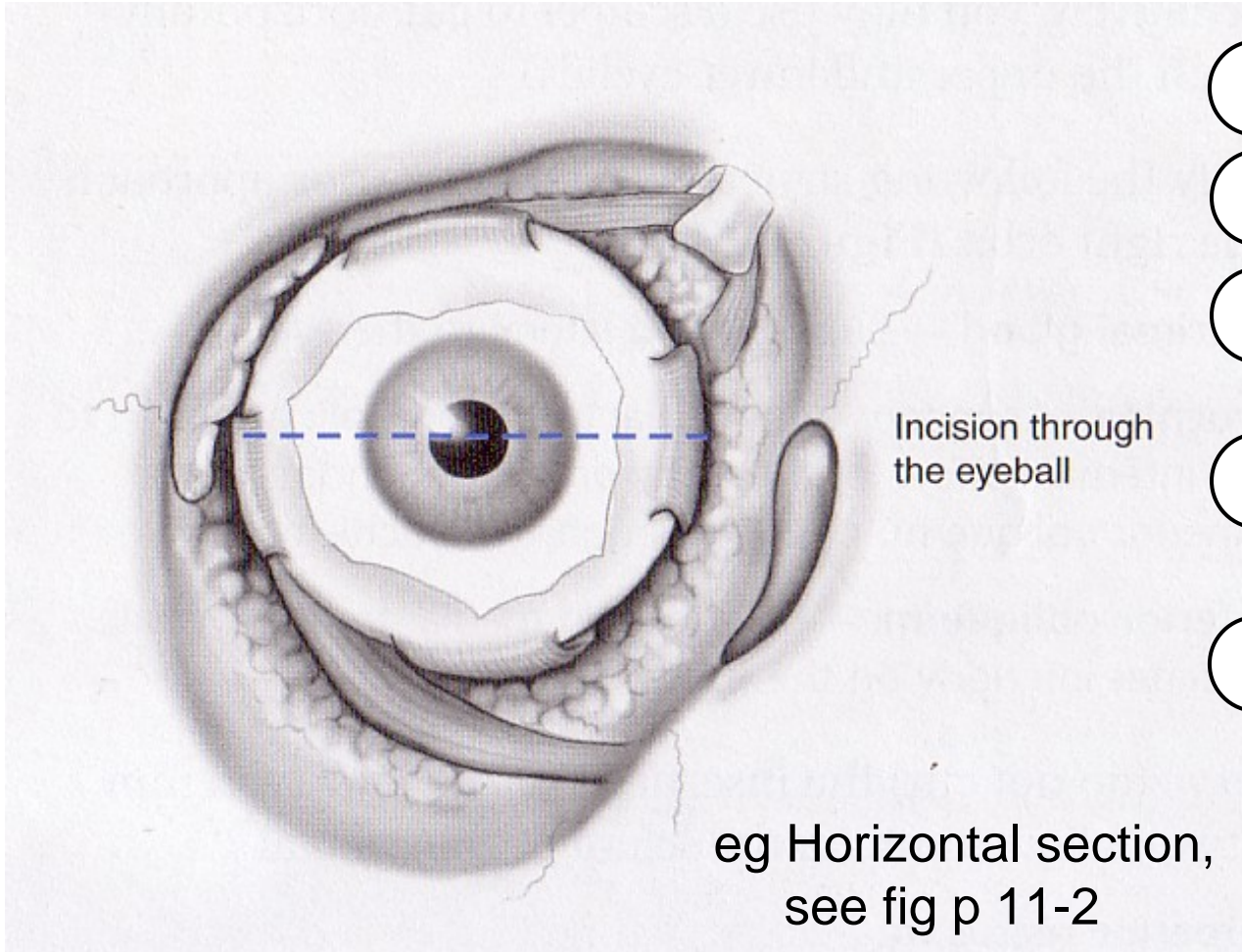
Cataracts in Child



Detached Retina



Lab Eye Tests + Dissection Overview

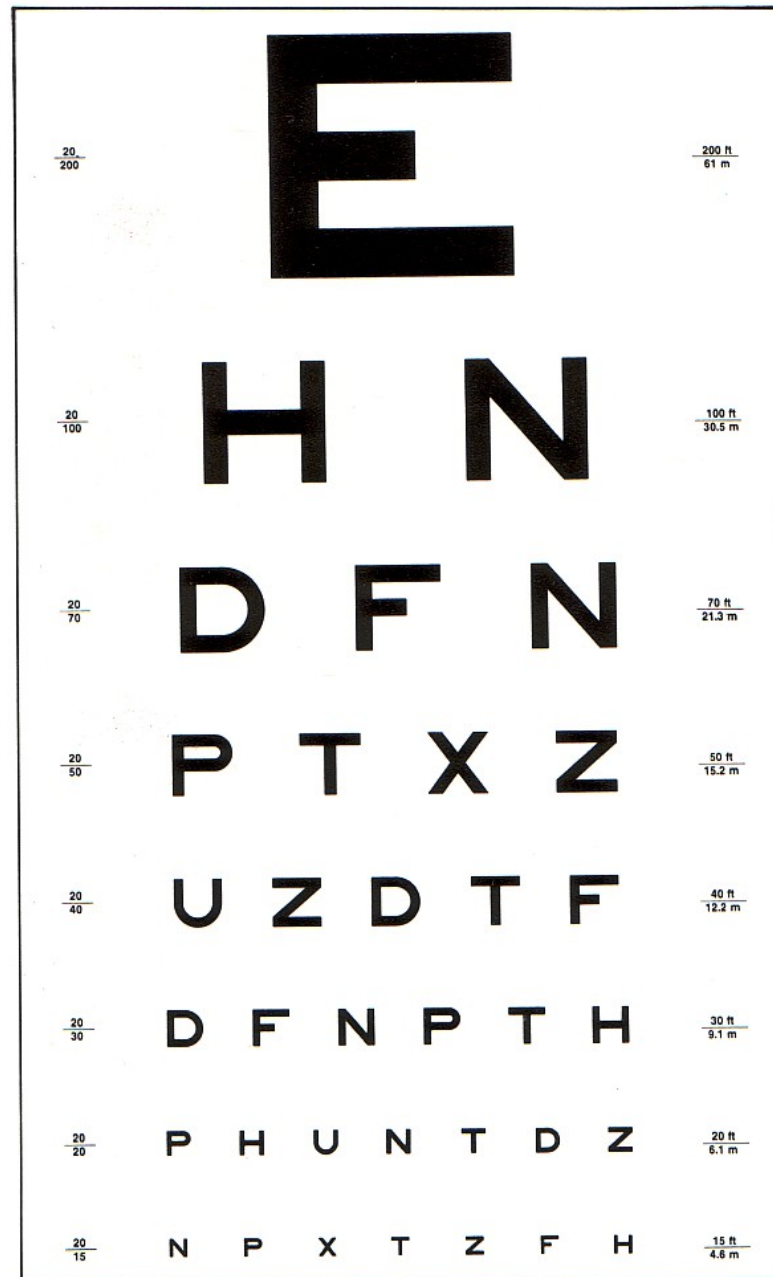


- ① Eye Dominance
- ② Snellen Acuity
- ③ Astigmatism
- ④ Blind Spot Mapping
- ⑤ Dissection of Cow & Pig Eyes
See pp 11-1,11-2

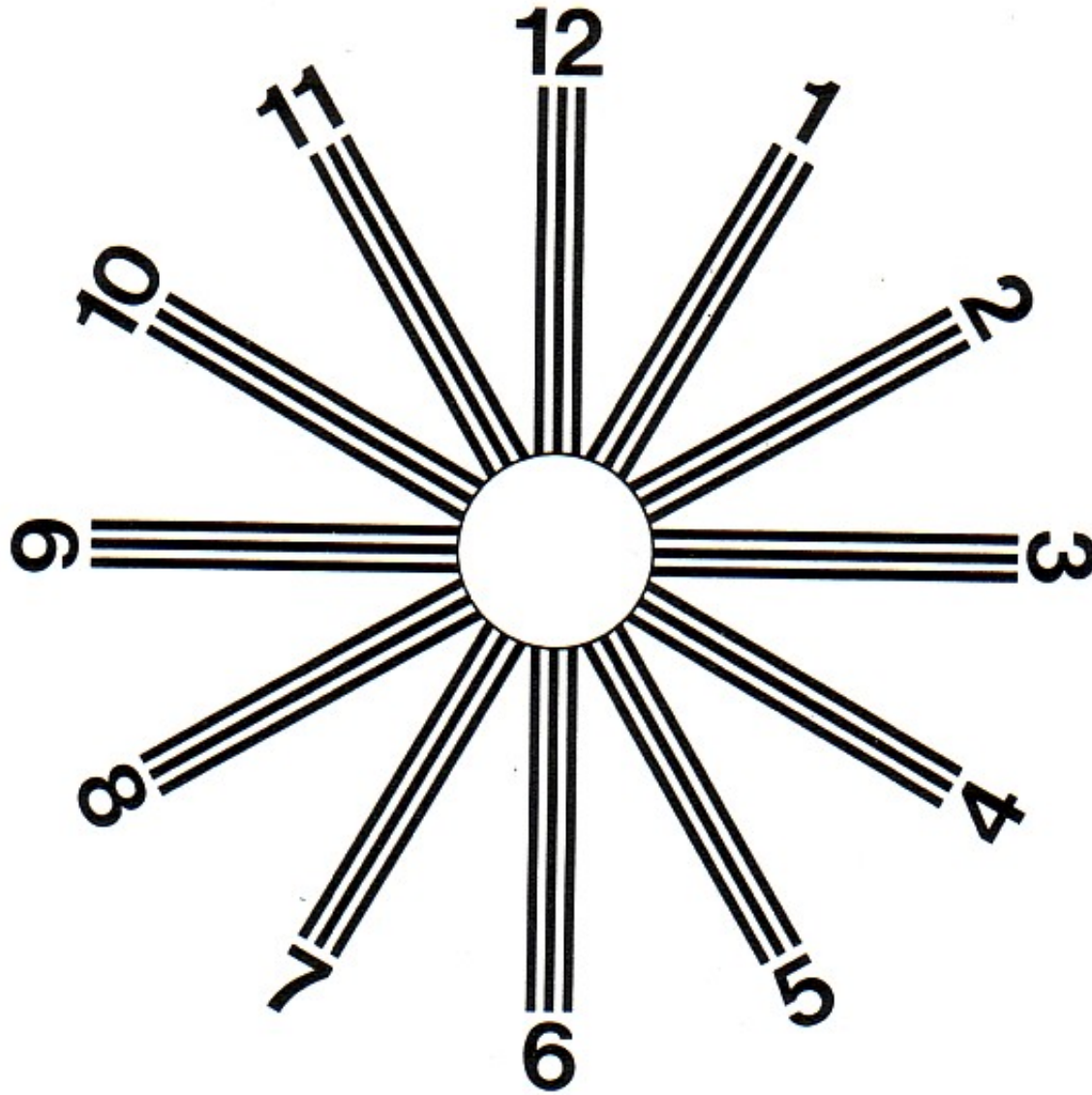
Eye Dominance?



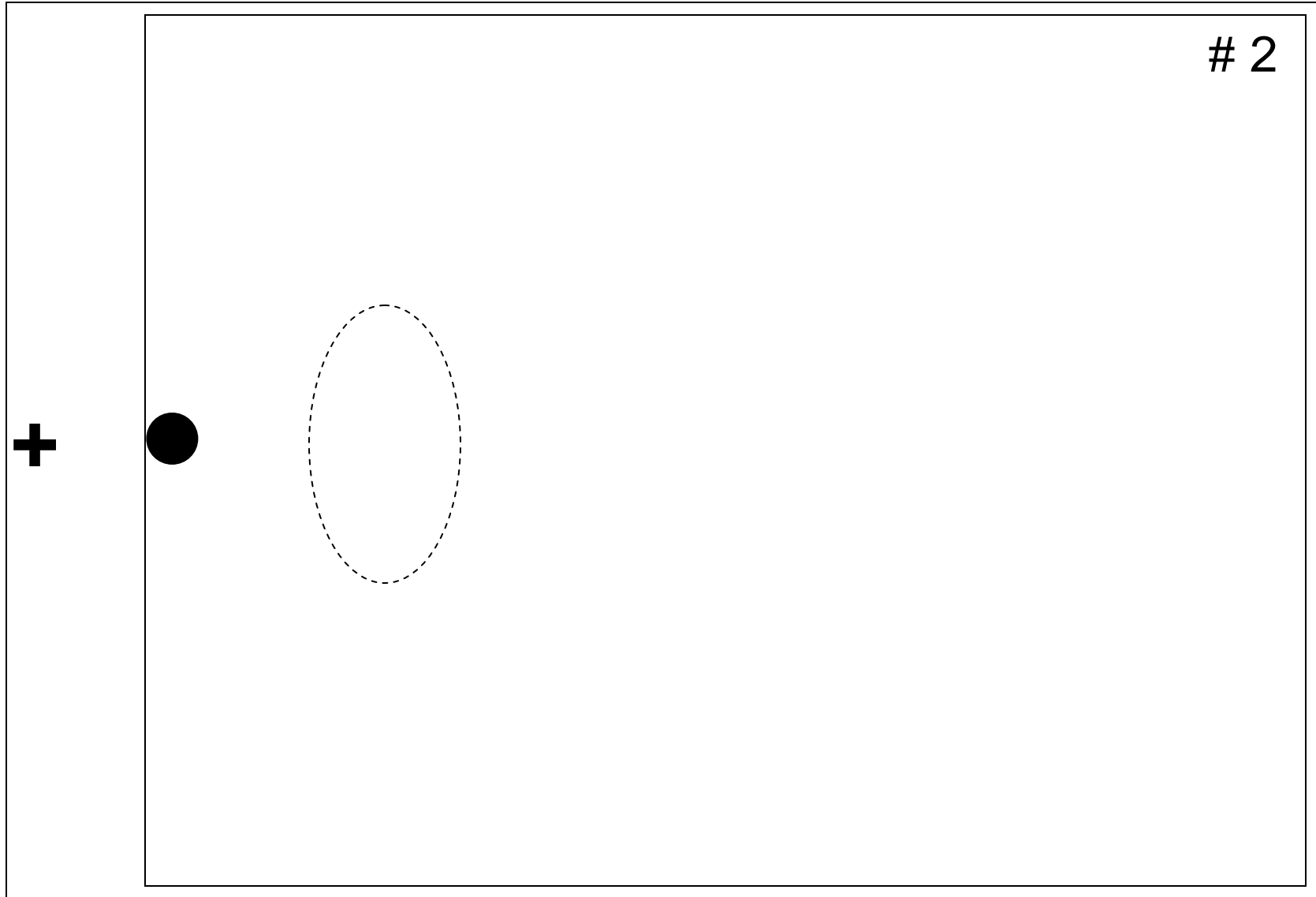
Snellen Visual Acuity Test



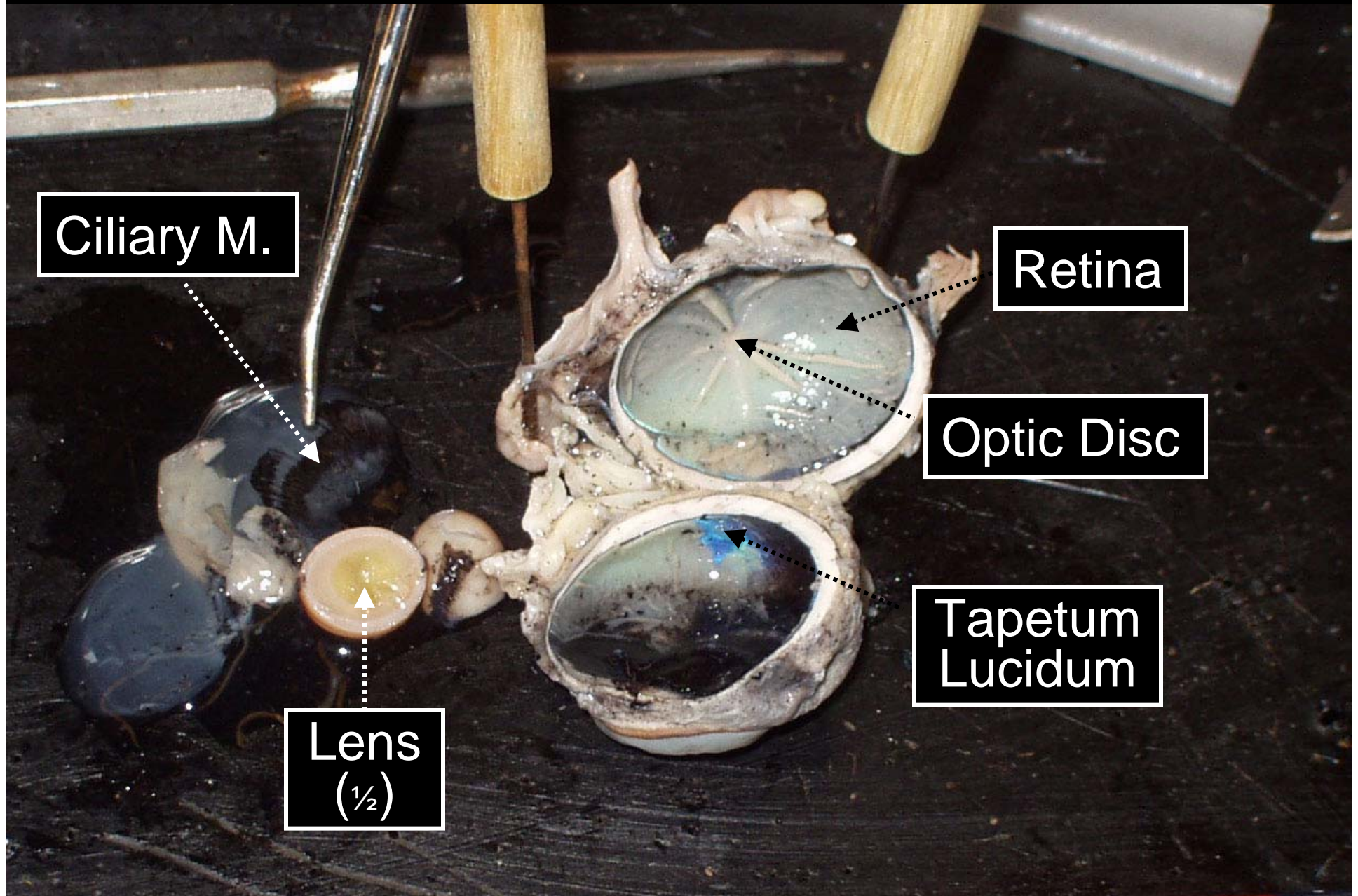
Astigmatism Test



Blind Spot Mapping?



Jennifer's Eye Dissection!



Tapetum Lucidum "Bright Tapestry"
Illuminated Due to Flash Photography

