

1



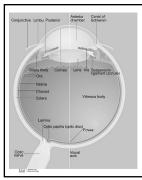
# Opbouw

Het oog is opgebouwd uit 3 concentrische lagen:

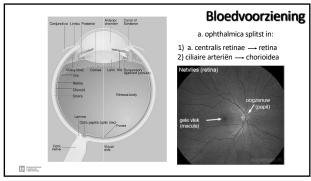
- Corneo-sclerale laag of tunica fibrosa of tunica externa cornea: voorste 1/6 - sclera: achterste 5/6
- Uvea of tunica vasculosa of tunica media iris corpus ciliare -chor(i)oidea
- Retina (netvlies) (tunica interna)
   pars optica ora serrata-pars caeca

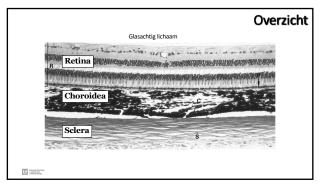
papilla nervi optici (blinde vlek), fovea centralis, macula lutea (gele vlek: geen staafjes)

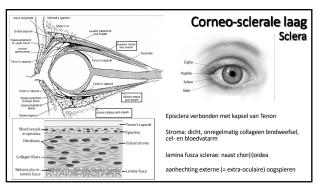
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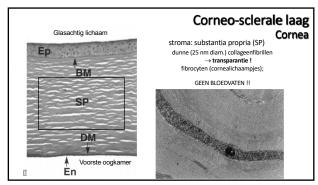


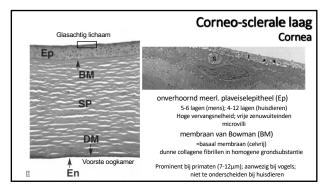


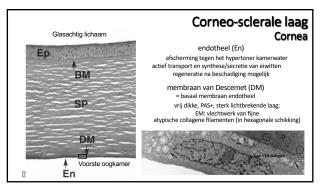


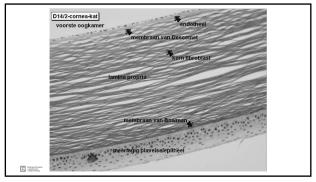


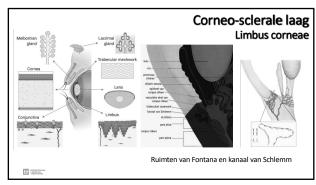


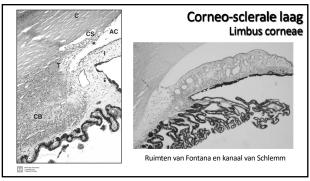


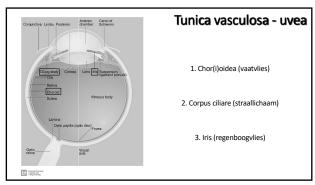


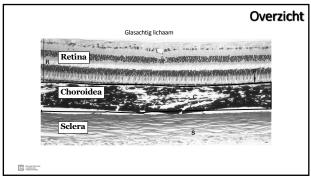


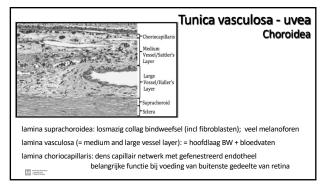


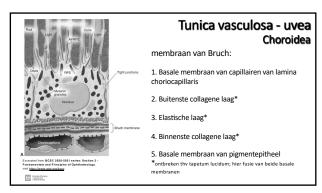












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## Tunica vasculosa - uvea Corpus ciliare

pars plicata (met processus ciliares) pars plana (met hierin <u>m. ciliaris</u>\*\*)

\*\*glad spierweefsel; zwak bij huisdieren; beter ontwikkeld bij primaten:

-meridionale vezels (m. tensor choroidea-spier van Brücke)
 dichtst tegen sclera gelegen
 Strekken van choroidea
 Voornaamste richting bij carnivoren

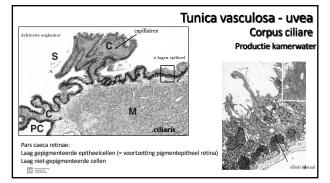
- circulaire vezels (spier van Müller)

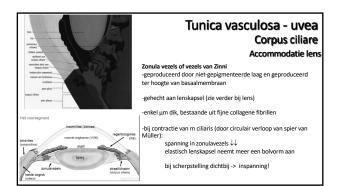
• Meest naar binnen gelegen

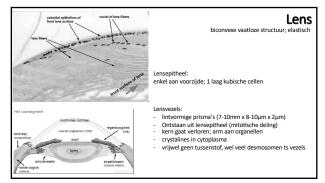
• Rol bij accommodatie

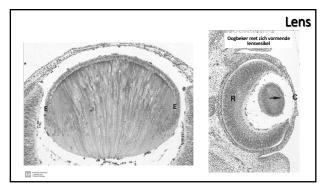
-<u>radiaire vezels</u>

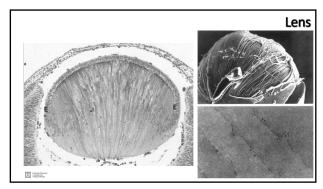
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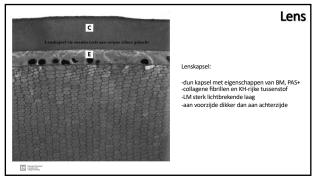


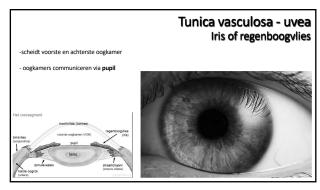


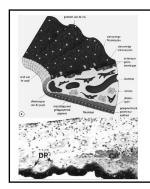












## Tunica vasculosa - uvea Iris of regenboogvlies

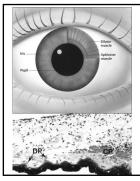
stroma van losmazig, sterk gevasculariseerd en gepigmenteerd bindweefsel

voorzijde: aflijning met fibroblasten en melanocyten

achterzijde: 2 lagen gepigmenteerde cellen (=pars infdica retinae; pars caeca) 1) woortzetting niet-gepigmenteerde laag corpus ciliare 2) gepigmenteerde laag (tegen stroma)

Door sterke pigmentatie van beide lagen is passage van licht enkel via pupil mogelijk

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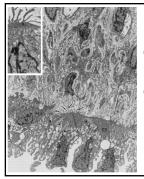


## Tunica vasculosa - uvea Iris of regenboogvlies

m. dilatator pupillae (DP): tegen stroma: gepigmenteerde cellen met tongvormige uitloper met contractiele eigenschappen (sympatische innervatie)

m. sphincter/constrictor pupillae (CP):
nabij pupilrand: circulair georiënteerde gladde
spiervezels (parasympathische innervatie);
vezels kruisen elkaar onder scherpe hoek lat &mediaal
(cfr dieren met ovale pupillen) of dorsaal & ventraal
(cfr dieren met spleetvormige pupillen)

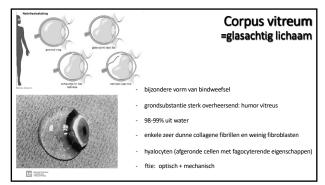
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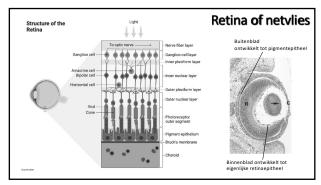


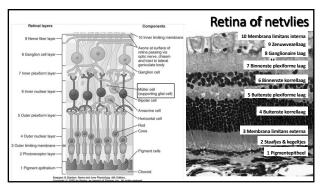
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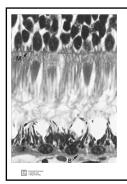
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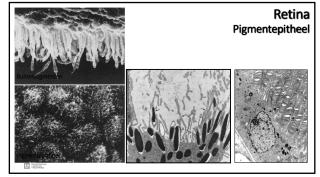




## Retina Pigmentepitheel

- vastgehecht aan membraan van Bruch (B
- melaninegrana apicaal
- basale invaginaties van celmembraan, veel mitochondria →
   ionentransport
- intercellulaire juncties met hierin verankering van staafjes en kegeltjes
- uitgebreid GER: verestering vit A + transport nr retina
- apicaal:lysosomen (cfr vertering van afgesnoerde fragmenten van fotoreceptoren; tss 2000-4000/dag)
- thv tapetum lucidum geen melaninekorrels in pigmentepitheel

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