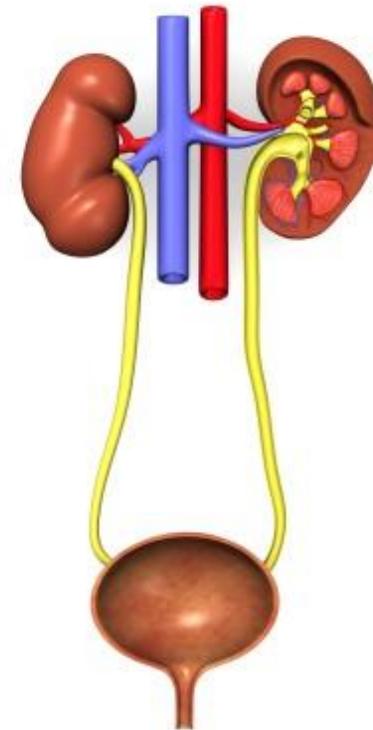
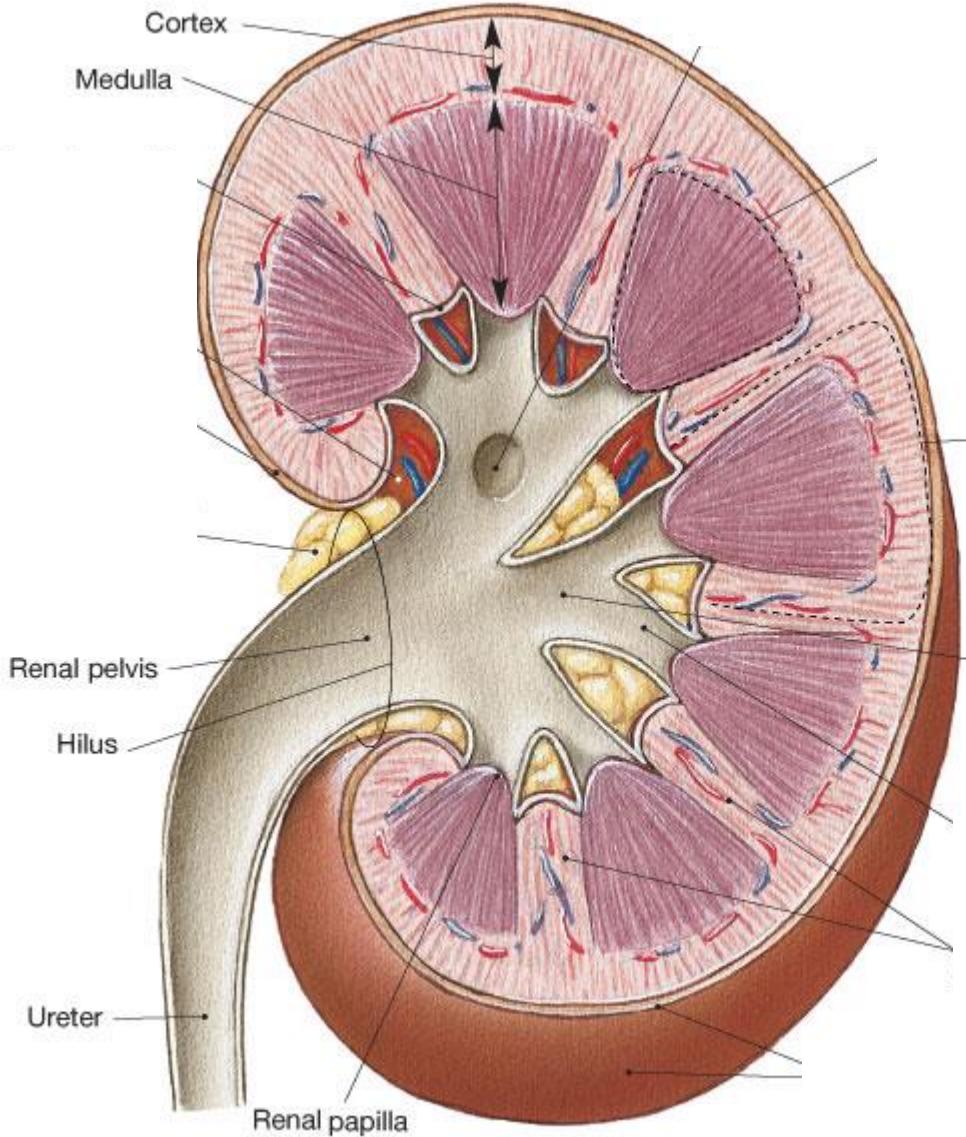




Urinary system

- ***Ren***
- ***Calyx renalis***
- ***Ureter***
- ***Vesica urinaria***
- ***Urethra***





Kidney (*ren, nephros*)

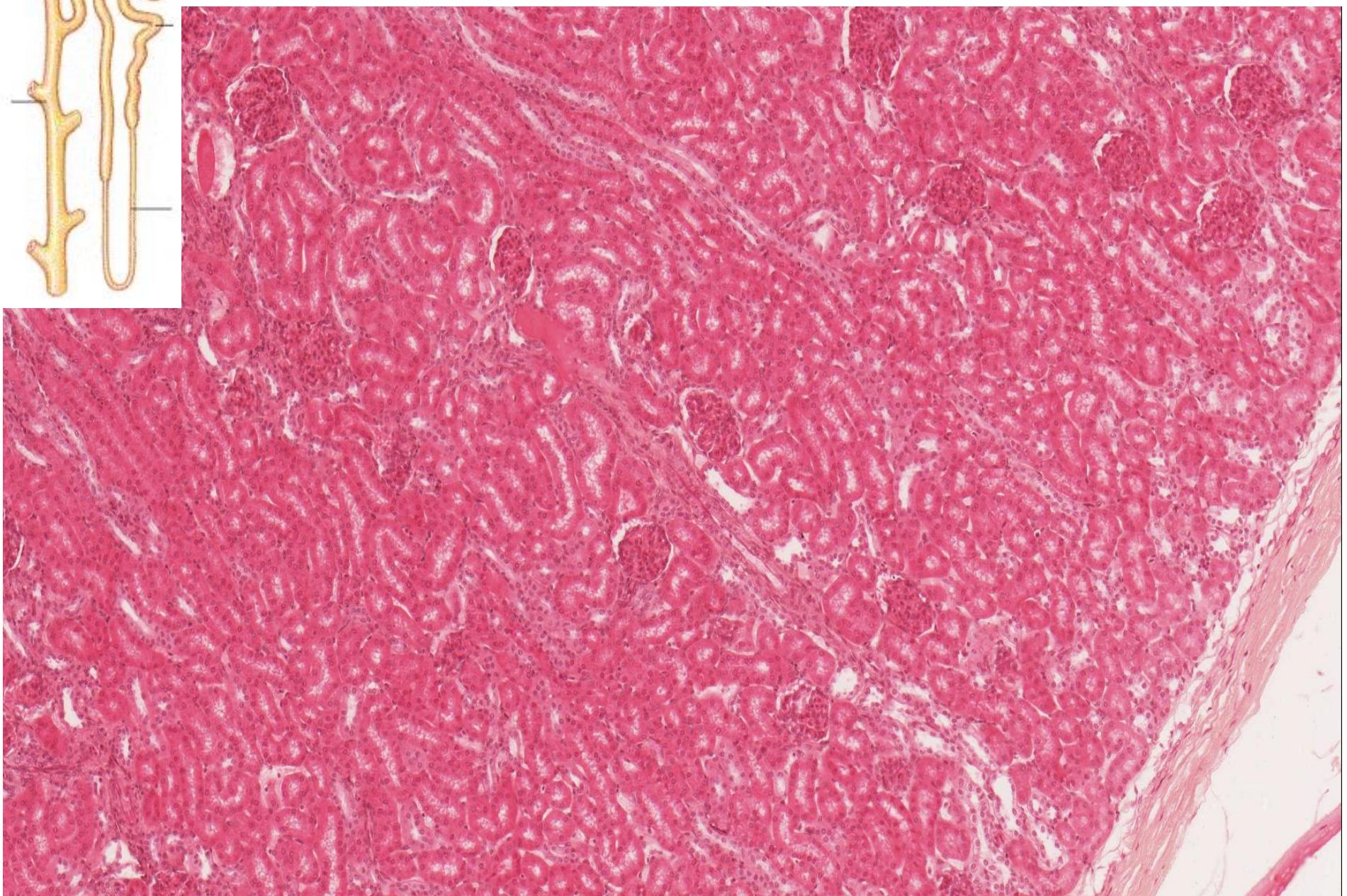
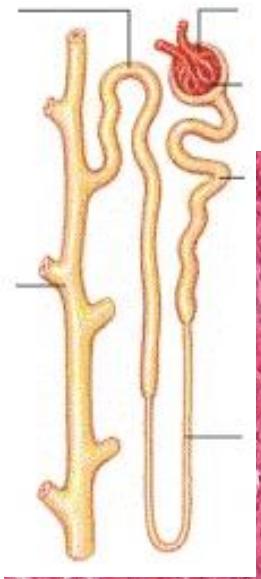
Capsula fibrosa
Capsula adiposa

Cortex:

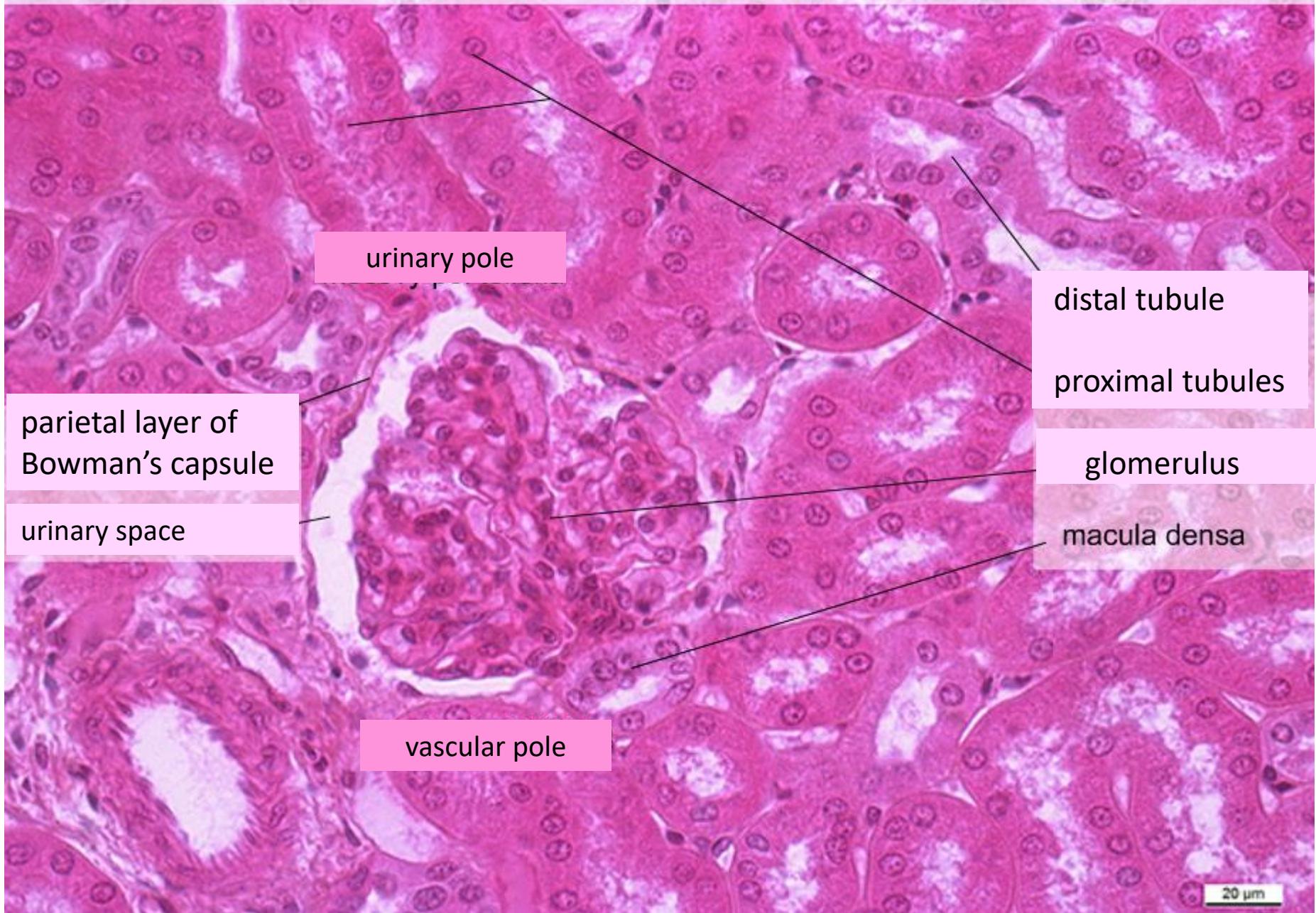
- *cortex corticis*
- *pars radiata corticis*
- *columnae renales*
(Bertini)

Medulla:

- *pyramides renales (10 – 18)*
- *papillae renales*
- *foramina papillaria in area cribrosa*
- *medullary rays*

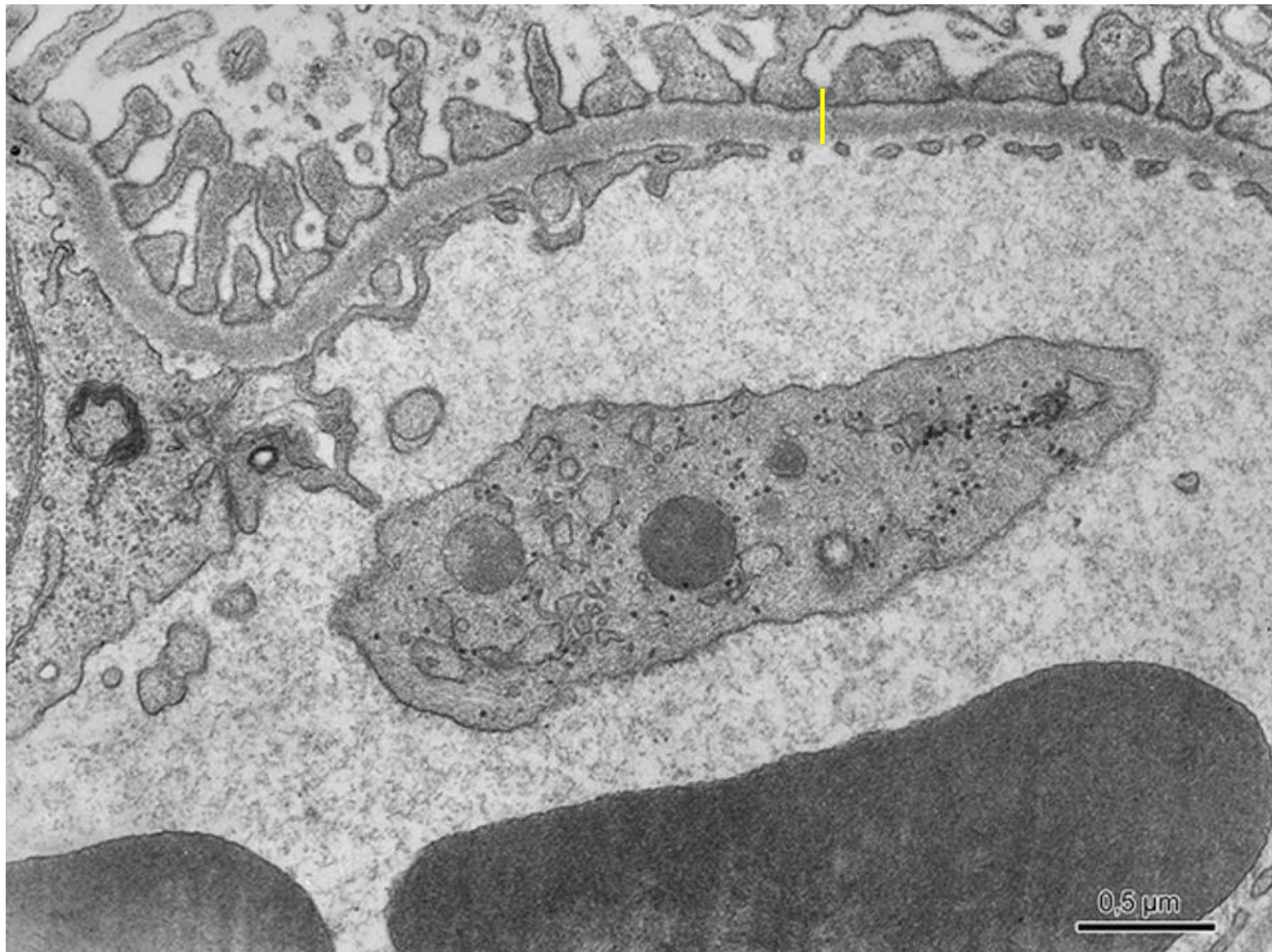


Ren – corpusculum renis, (HE), objektiv 40×



20 µm

Fenestrated capillary of glomerulus - filtration barrier

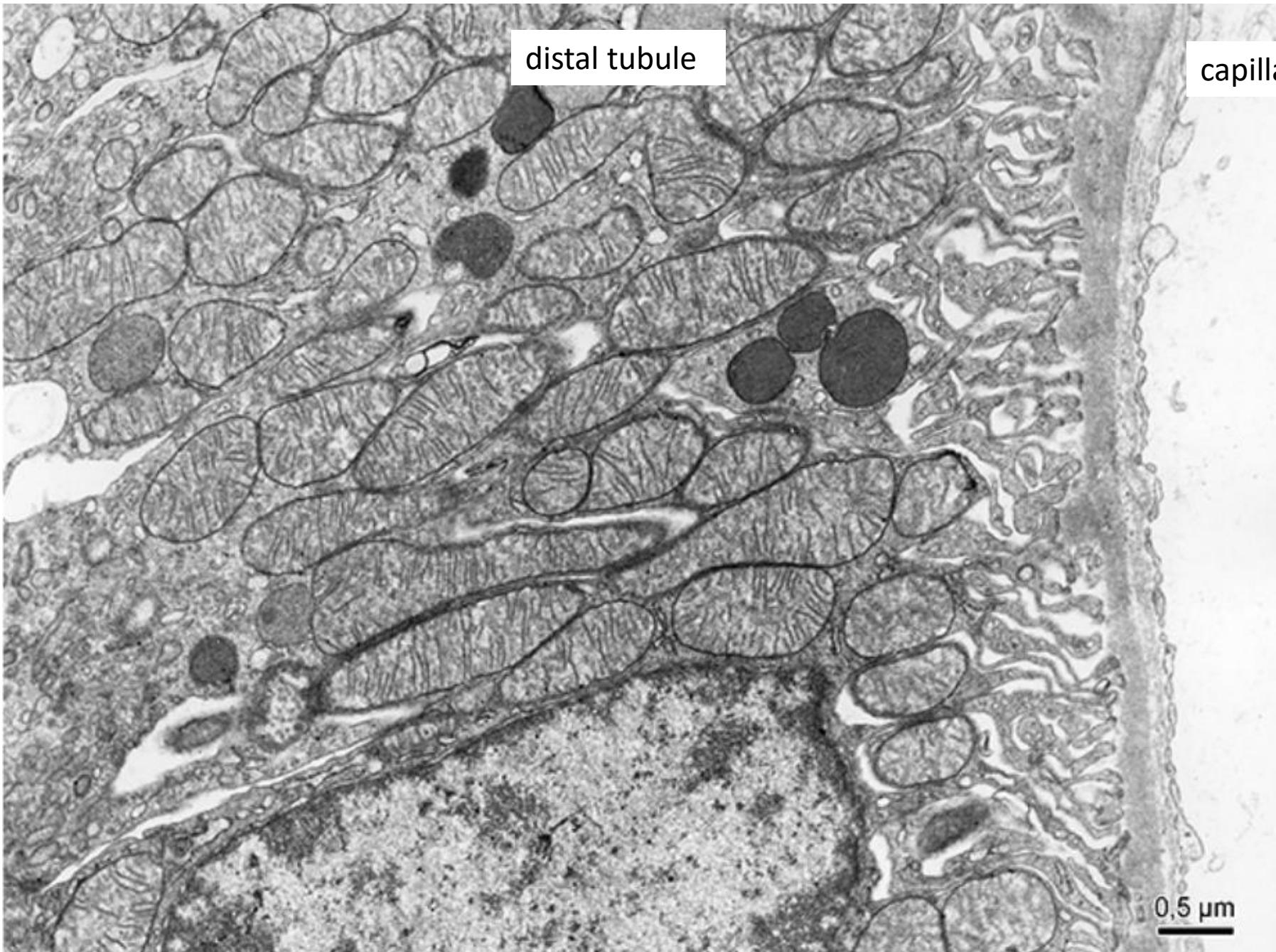


Basal labyrinth

distal tubule

capillary

0.5 μm



Ren – medulla, (HE), objektiv 40×



Calyx renalis, (HE), objektiv 2,5×

Transitional
epithelium

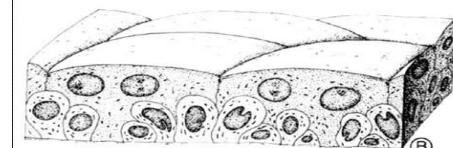
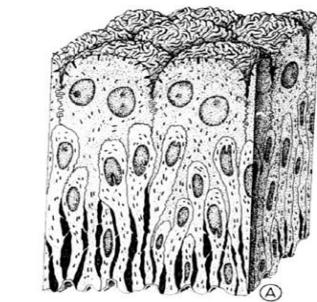
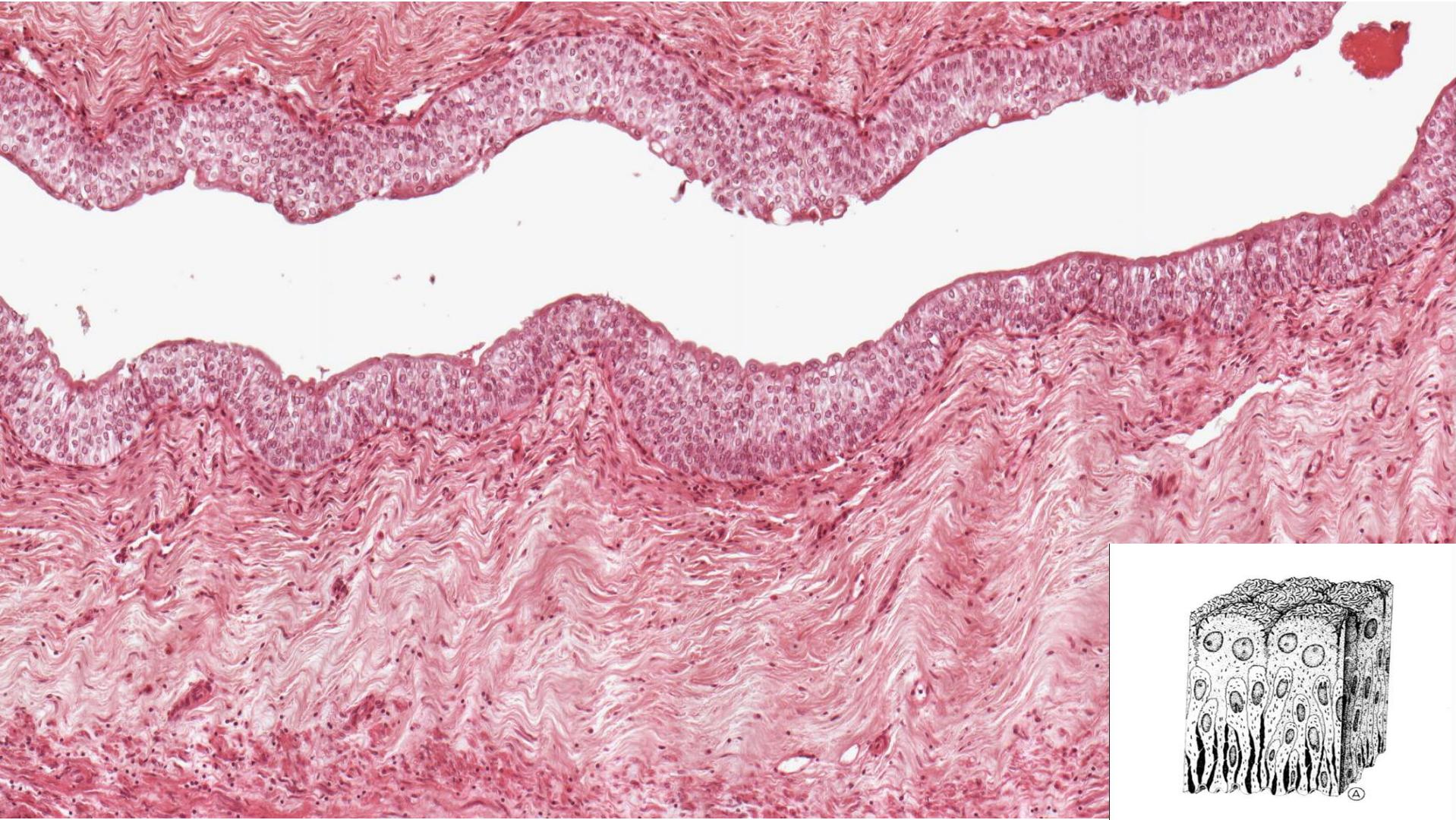
calyx renalis

Adipose tissue

artery

20 µm

Calyx renalis (HE)

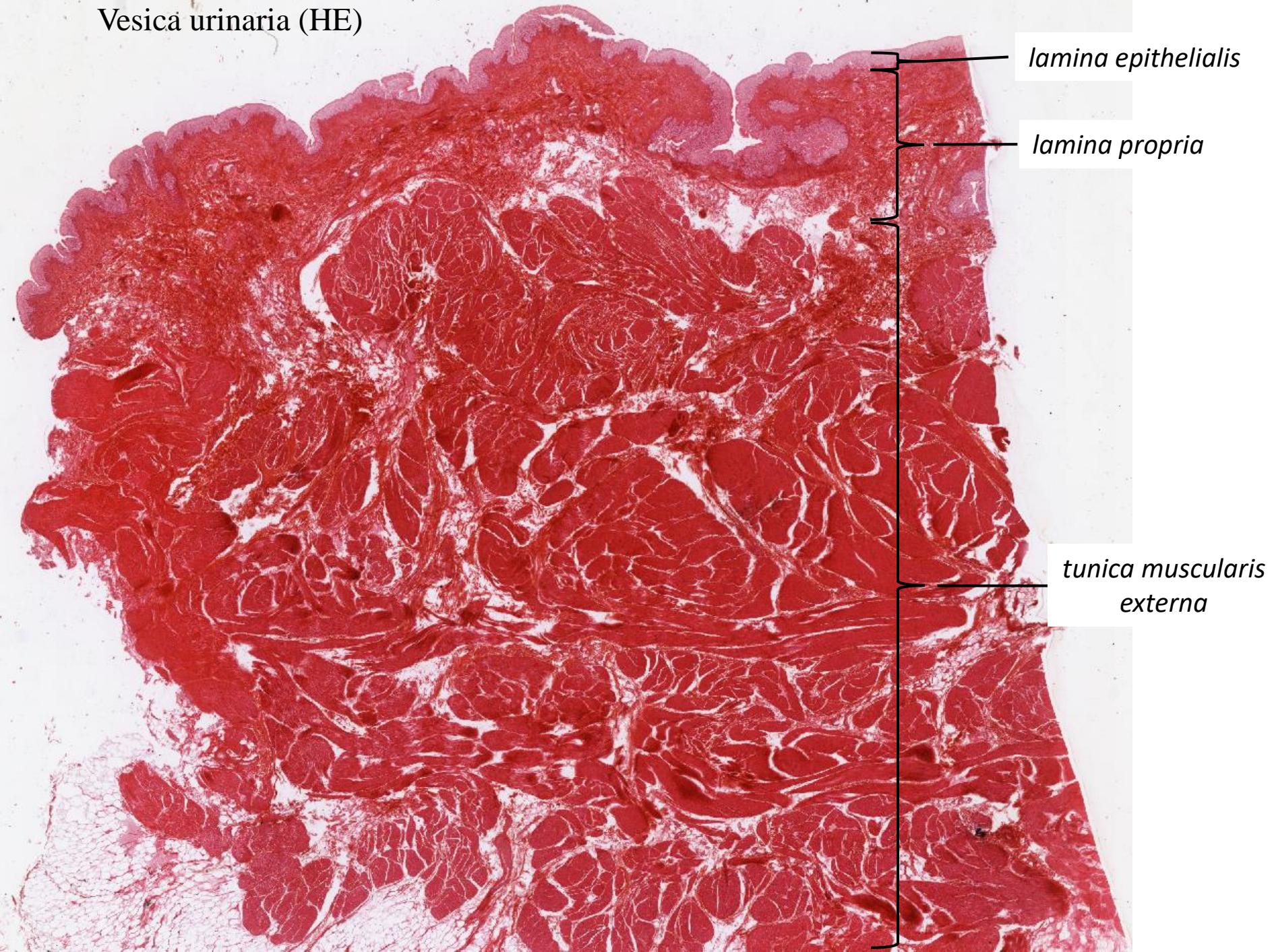


Ureter (HES)

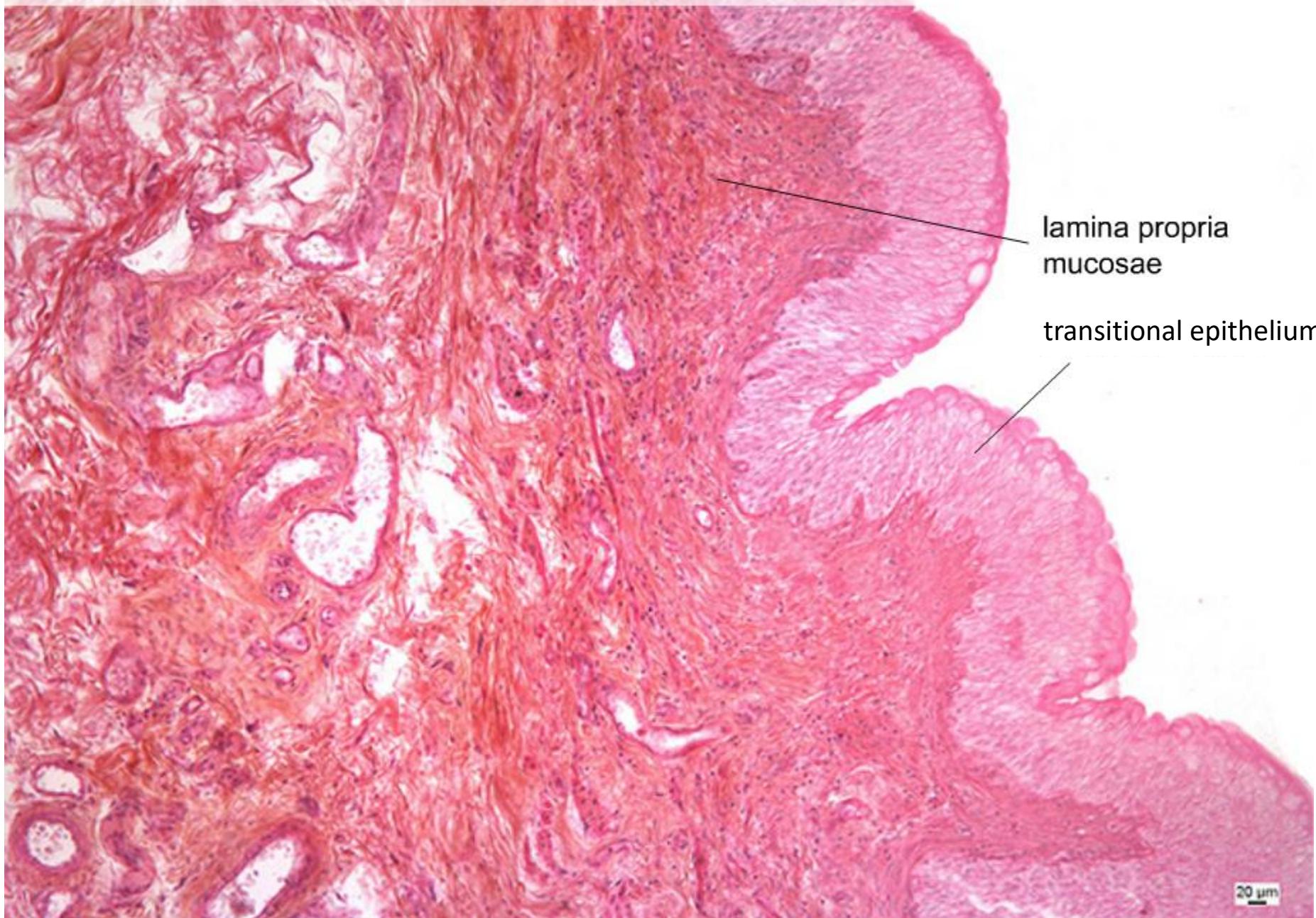


20 μ m

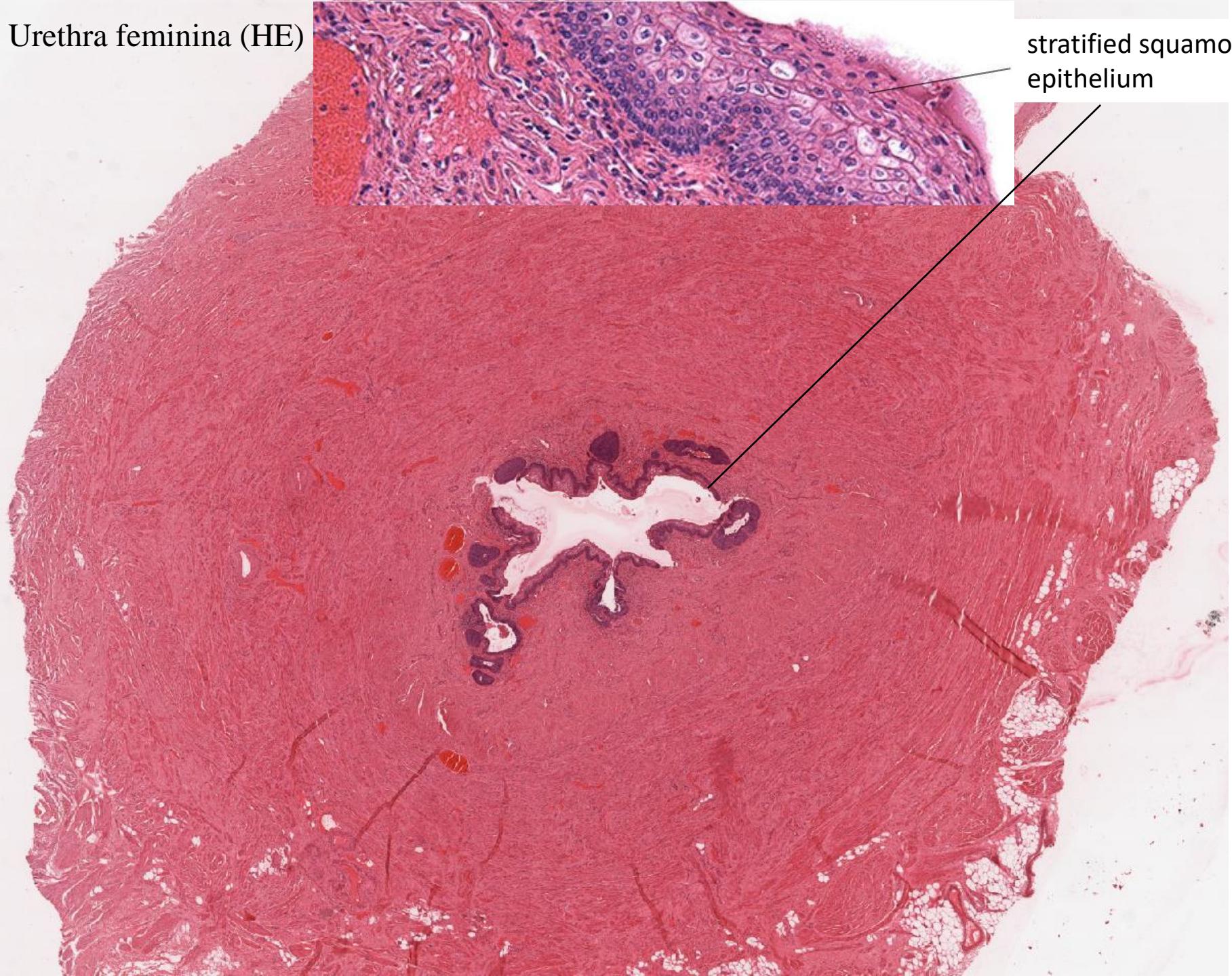
Vesica urinaria (HE)



Vesica urinaria – tunica mucosa, (HE), objektiv 20×



Urethra feminina (HE)



stratified squamous epithelium

Penis – pars spongiosa urethrae masculinae (HE)

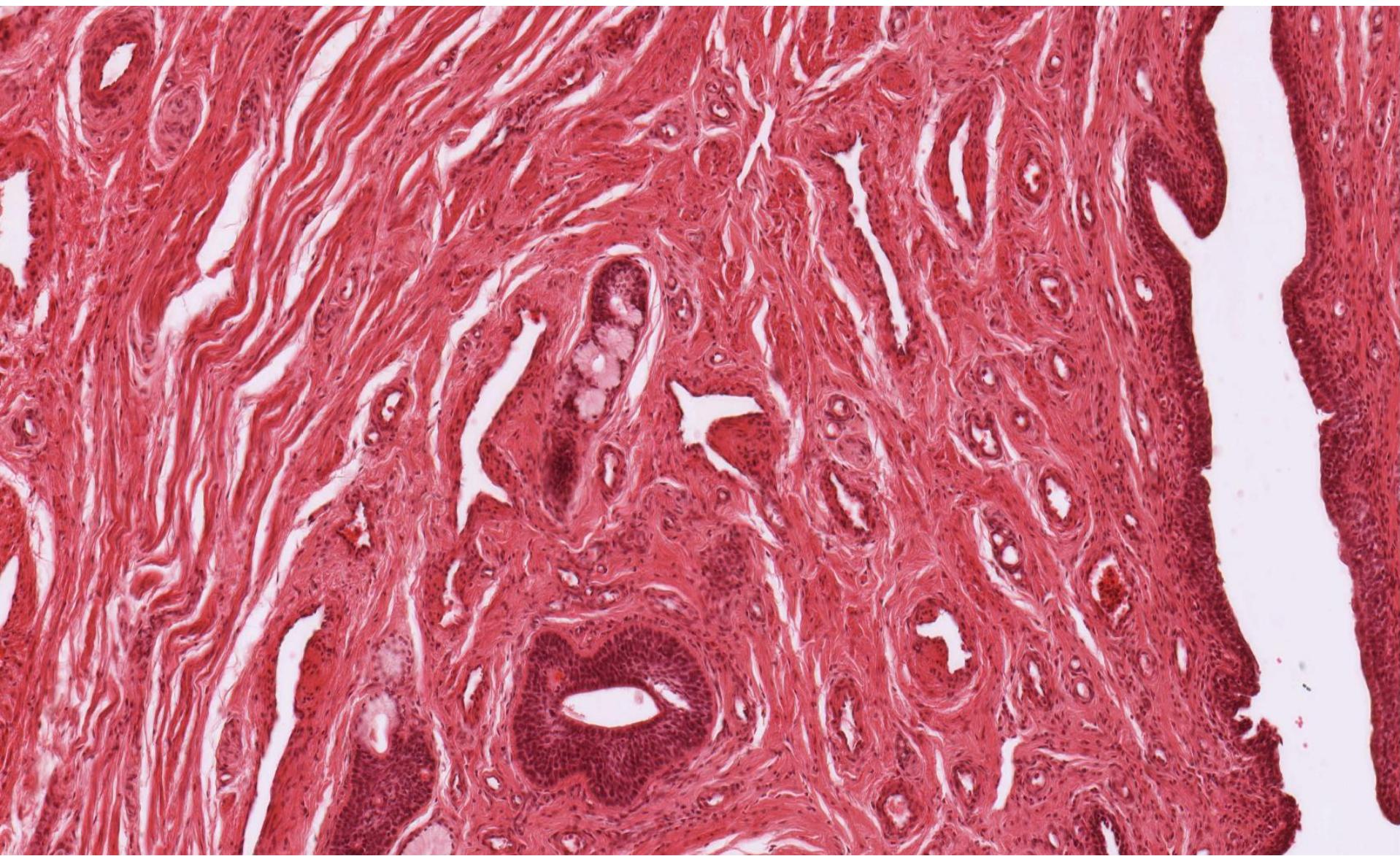


Urethra masculina – přehled, glandulae paraurethrales, (HE), objektiv 2,5×

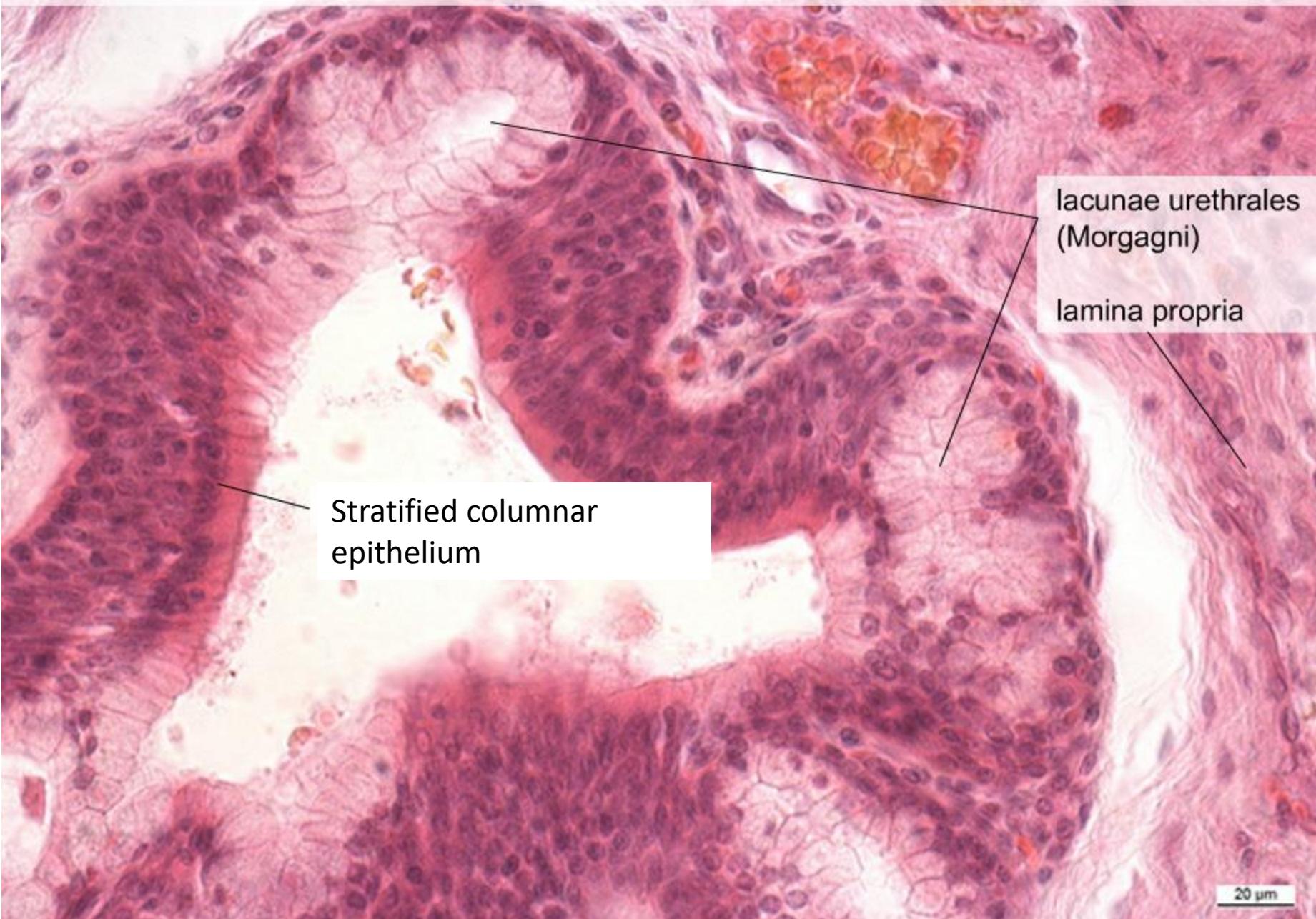


20 µm

Penis – pars spongiosa urethrae masculinae (HE)



Urethra masculina – lacunae urethrales, (HE), objektiv 40×



URINARY SYSTEM

Slides:

- 30. *Ren* (HE)
- 31. *Ren* (Weigert – van Gieson)
- 32. *Calyx renalis* (HE)
- 33. *Ureter* (HE)
- 34. *Vesica urinaria* (HE)
- 35. *Urethra feminina* (HE)
- 41. *Penis – pars spongiosa urethrae masculinae* (HE)

Atlas EM: brush border (26)

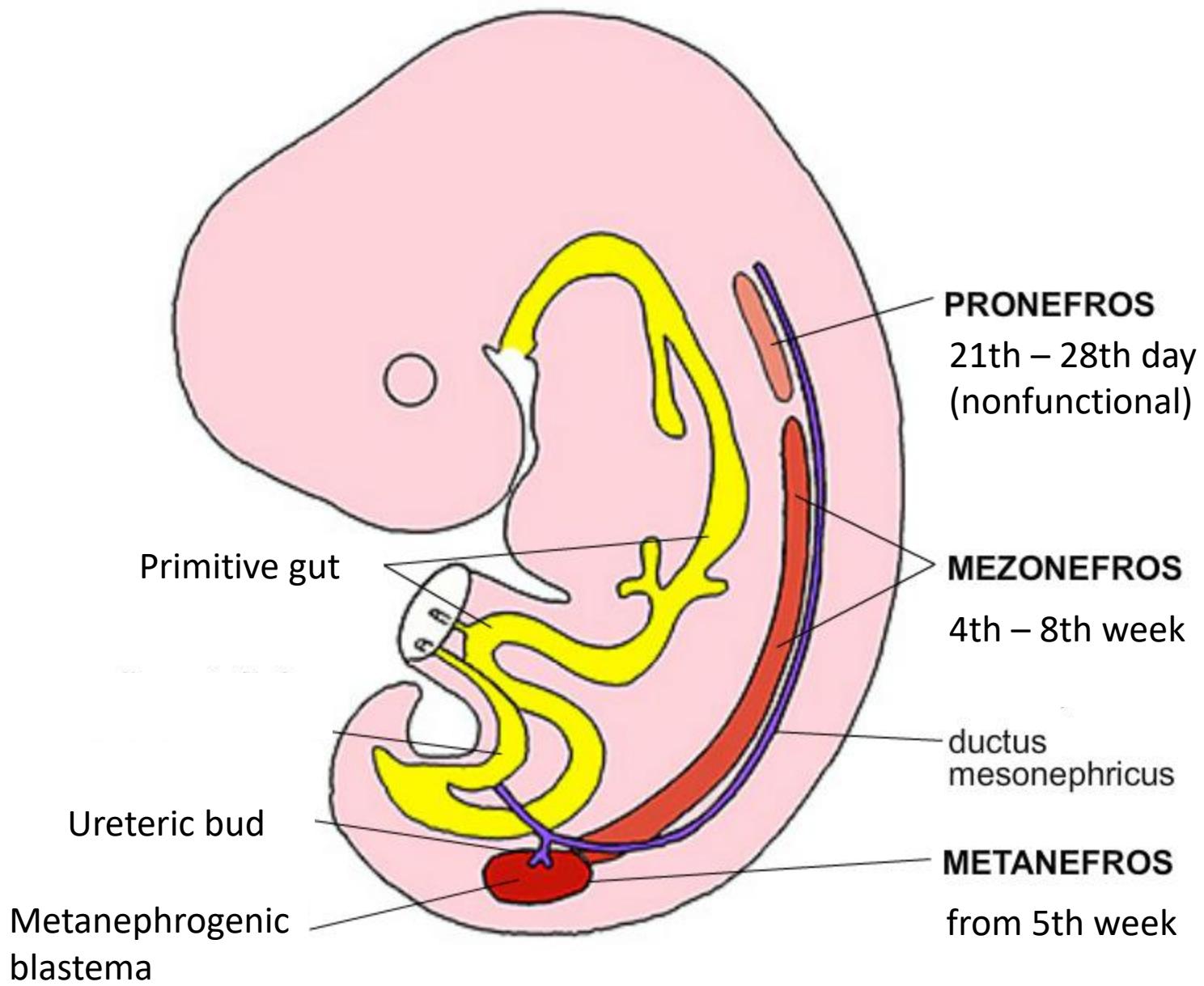
basal labyrinth (27)

fenestrated capillary of glomerulus (57)

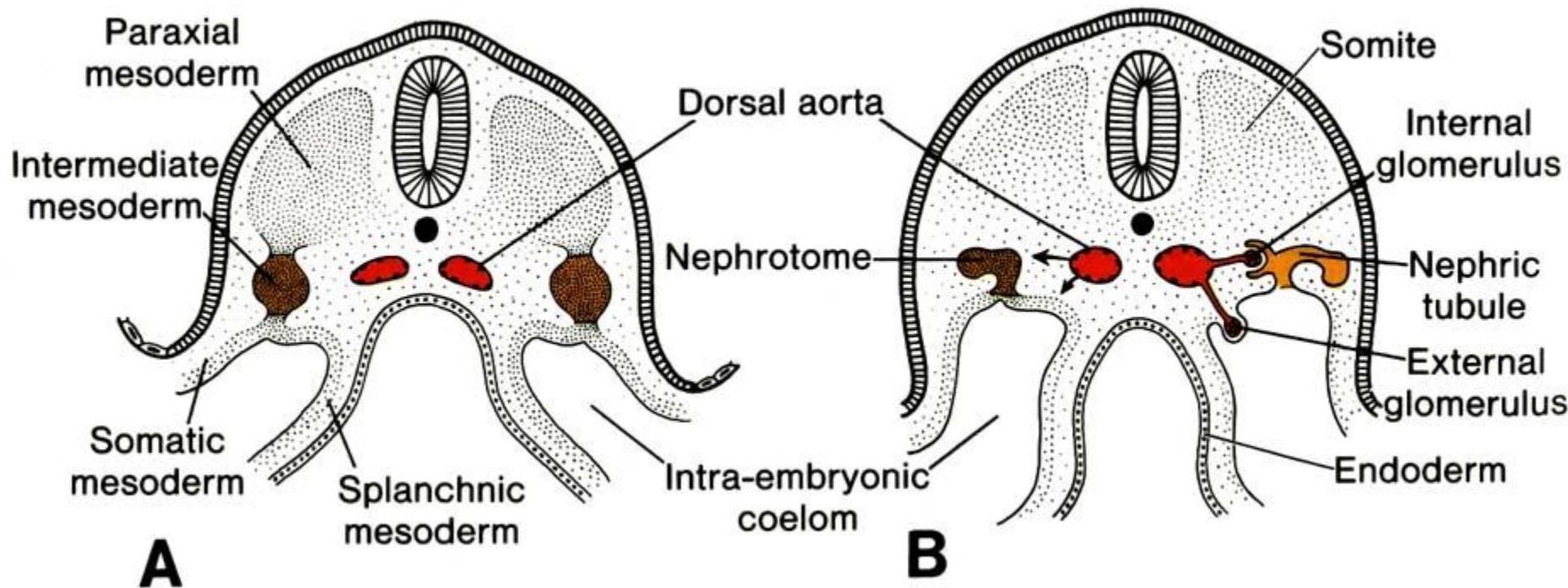
corpusculum renis with filtration barrier (69)

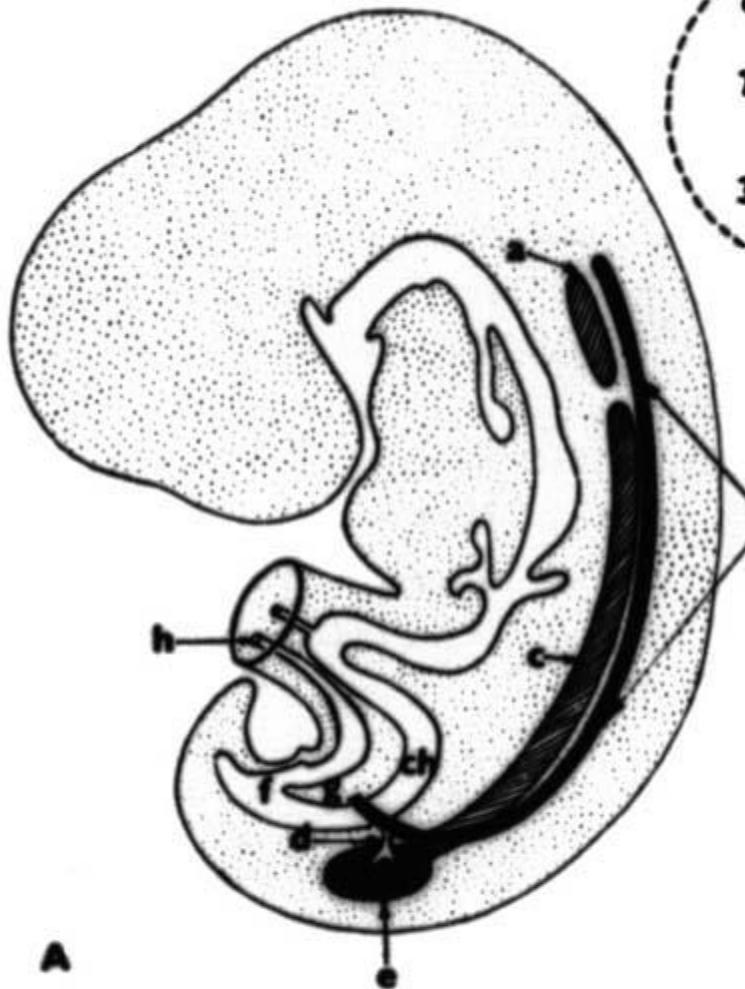
tubulus proximalis et distalis (70)

development of kidney (94)

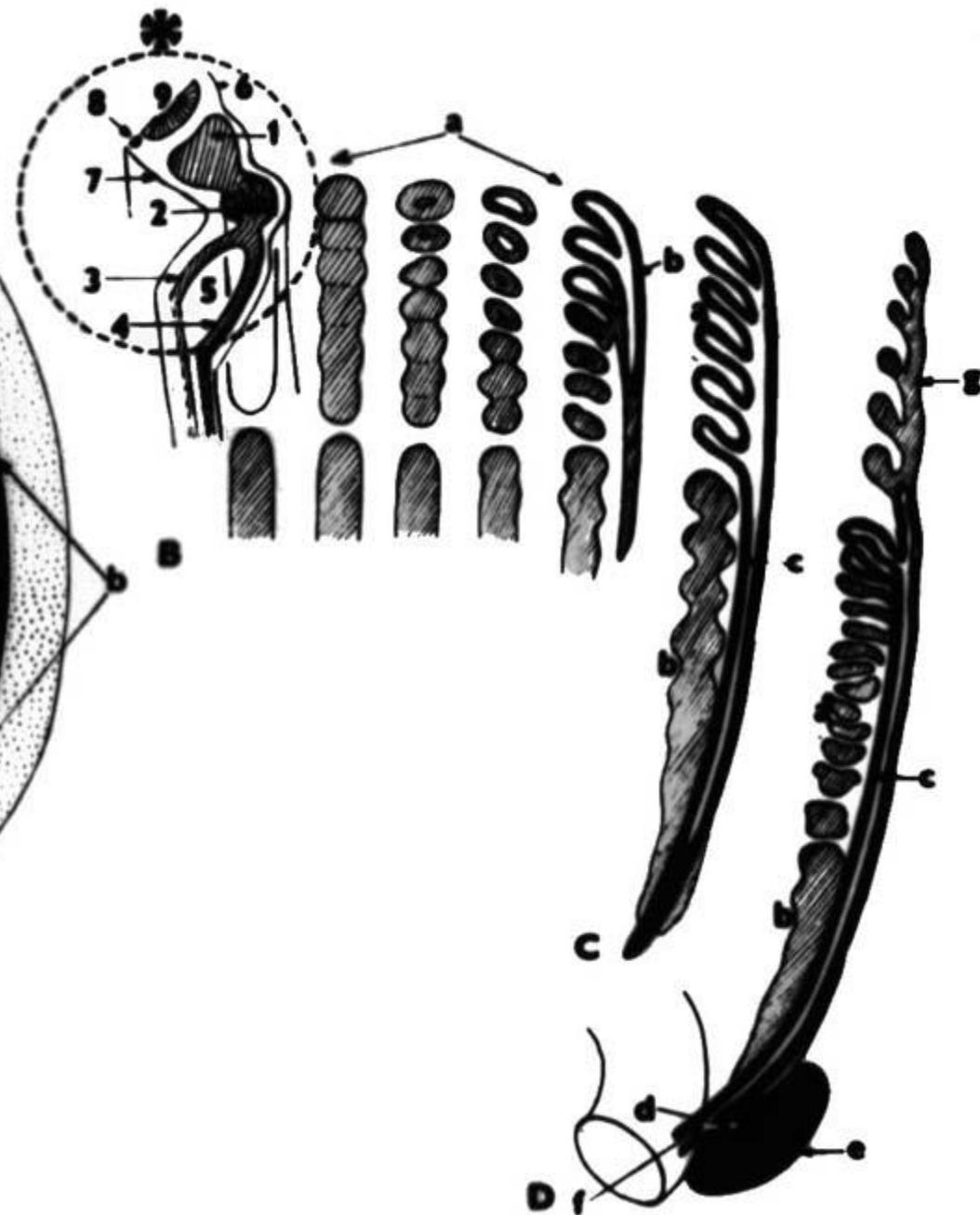


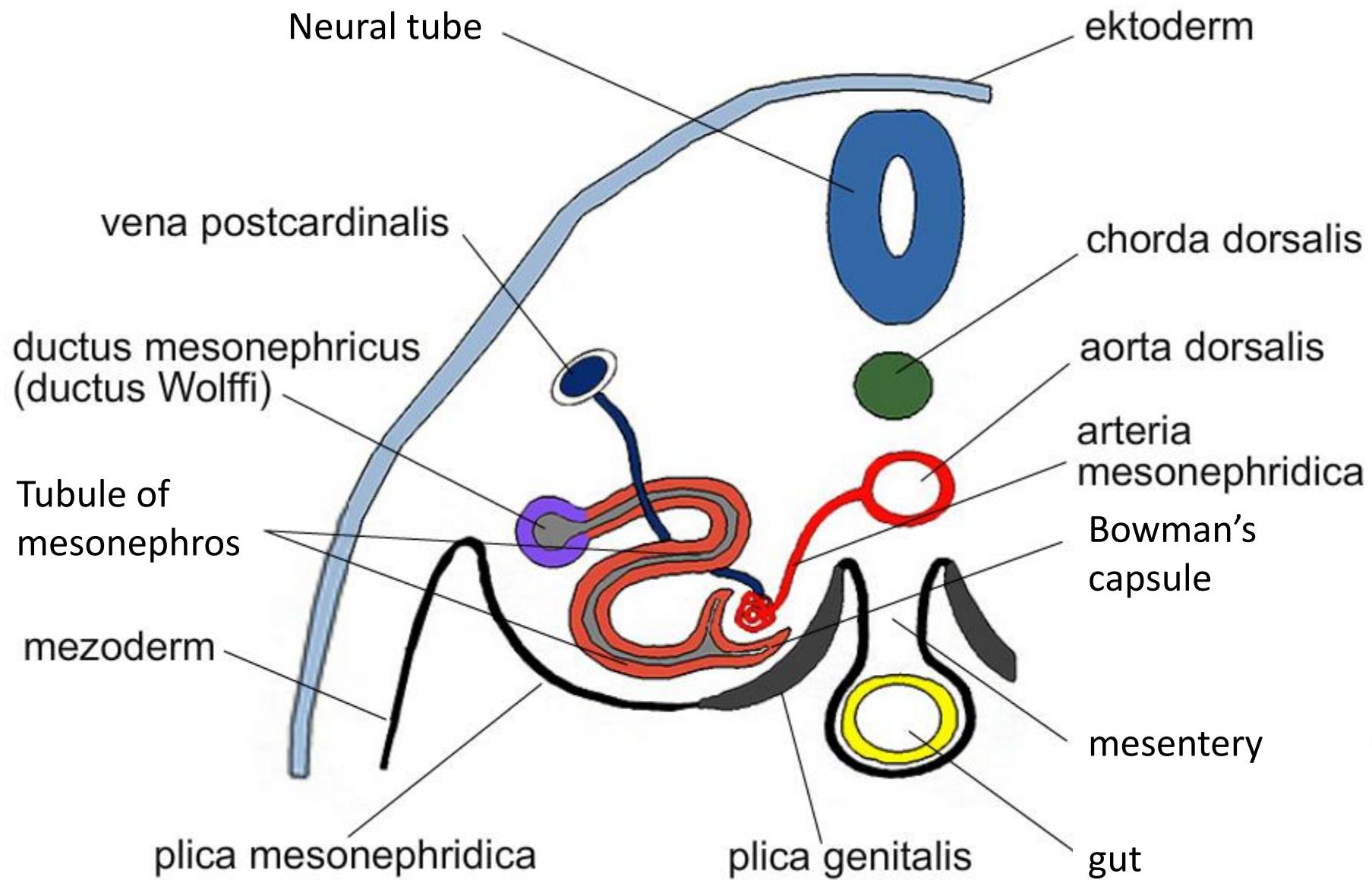
Development of urinary system



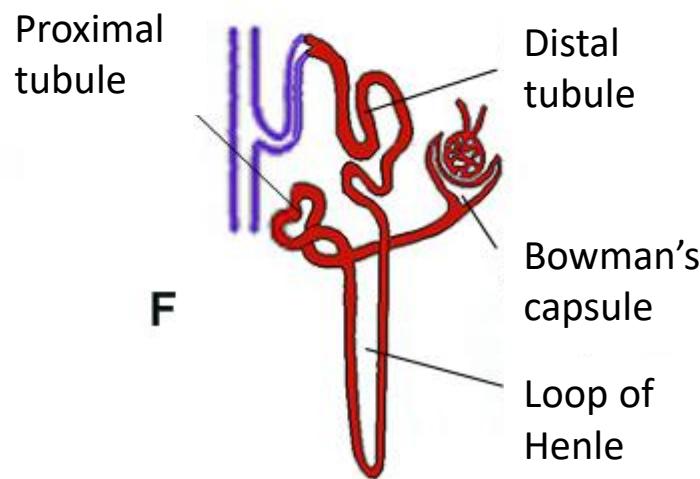
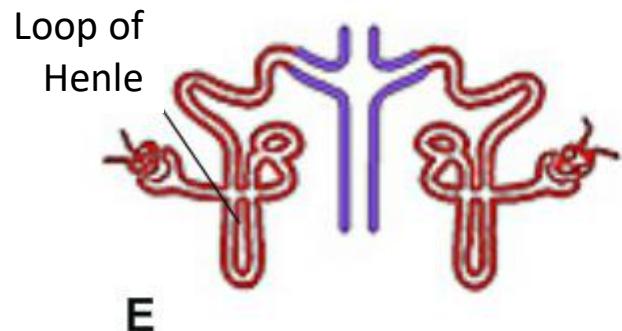
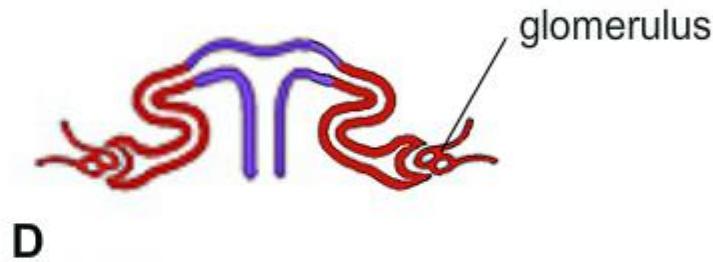
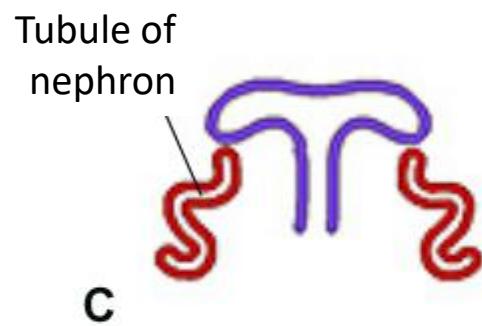
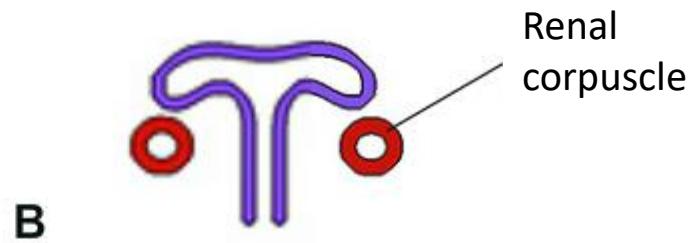
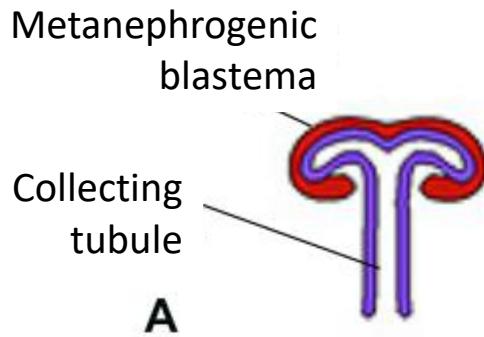


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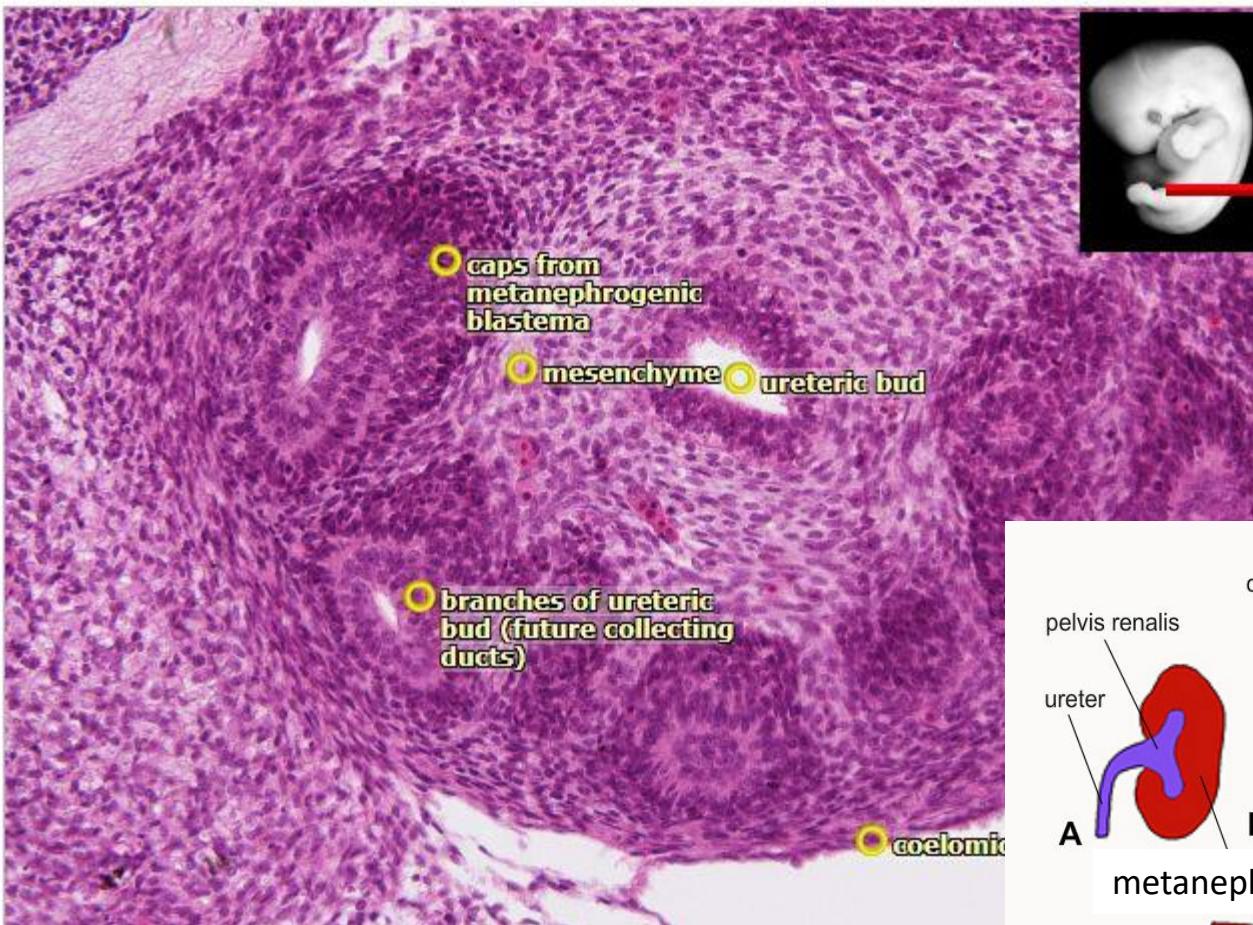




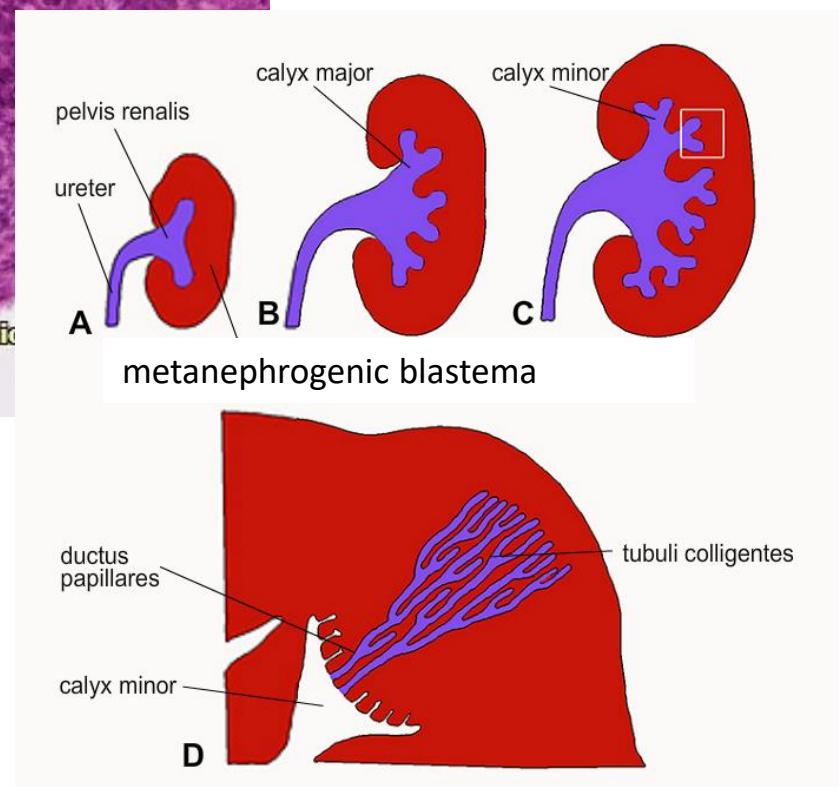
Development of nephrons



6-2 Human embryo (7th week) – cross-section through the body, HE, magn. 200x



[https://is.muni.cz/do/rect/el/estud/lf/ps15/atlas/web/atlas_en.htm
?chapter=7&prep=2](https://is.muni.cz/do/rect/el/estud/lf/ps15/atlas/web/atlas_en.htm?chapter=7&prep=2)



Septation of cloaca

