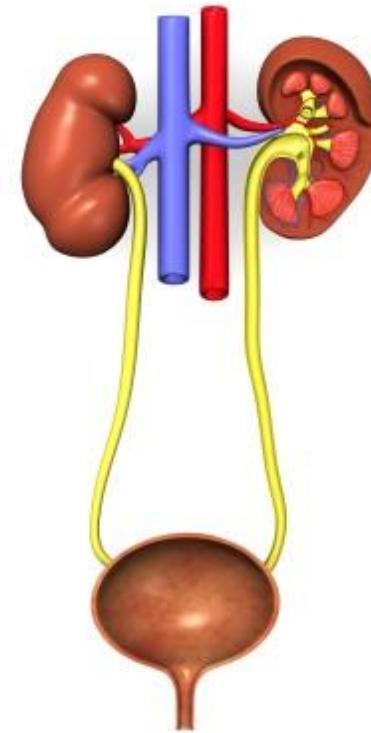
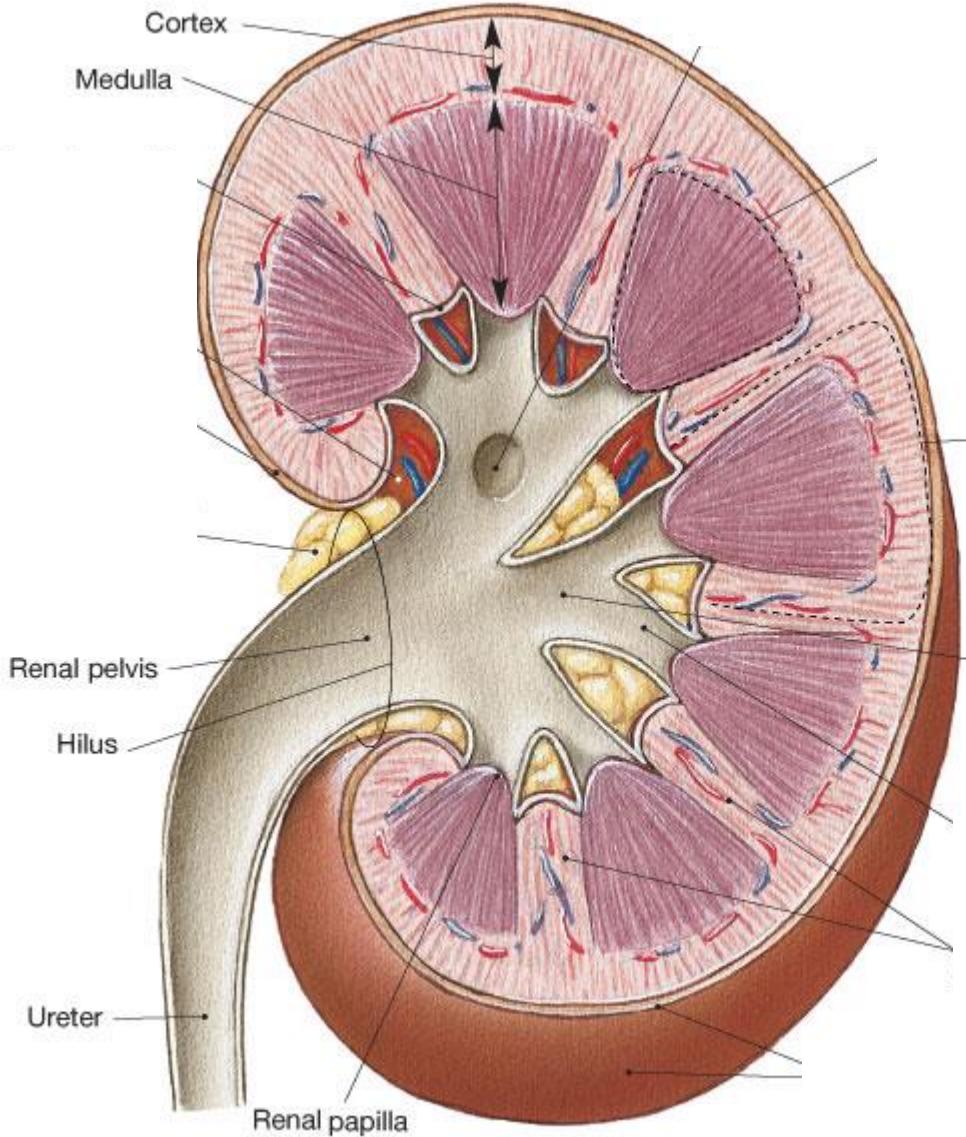




Urinary system

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





Kidney (ren, nephros)

Capsula fibrosa

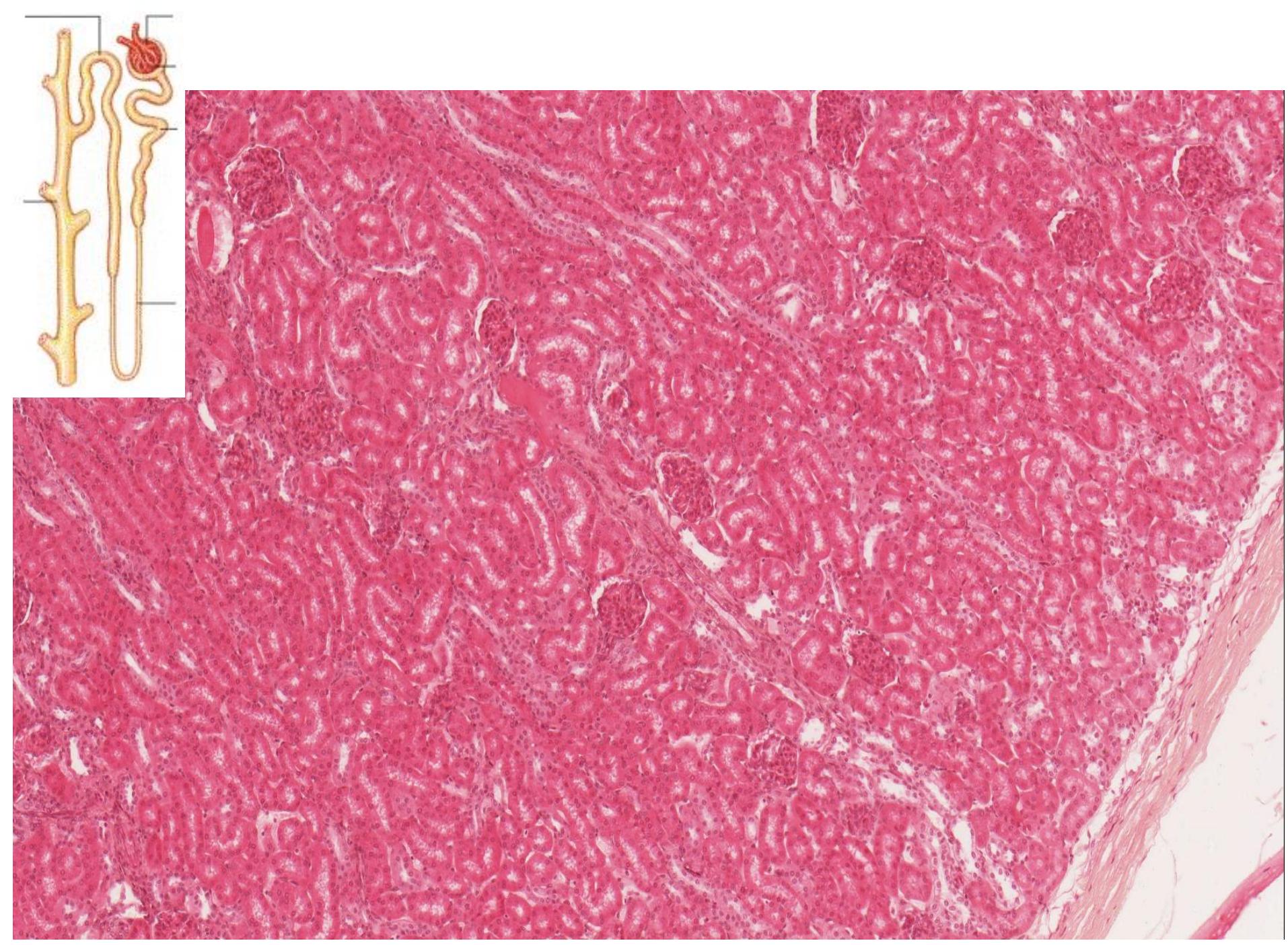
Capsula adiposa

Cortex:

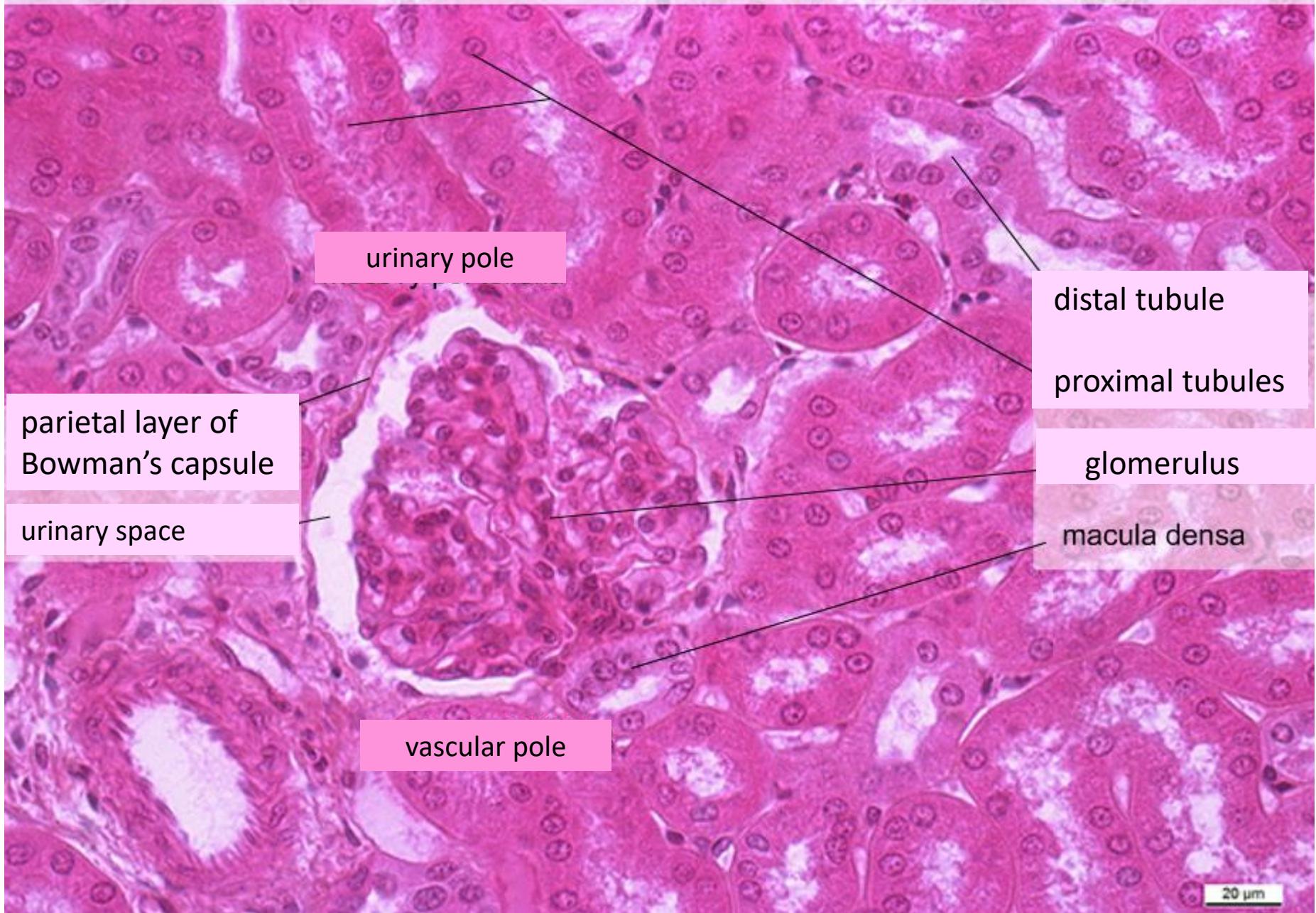
- cortex corticis
- pars radiata corticis
- columnae renales (Bertini)

Medulla:

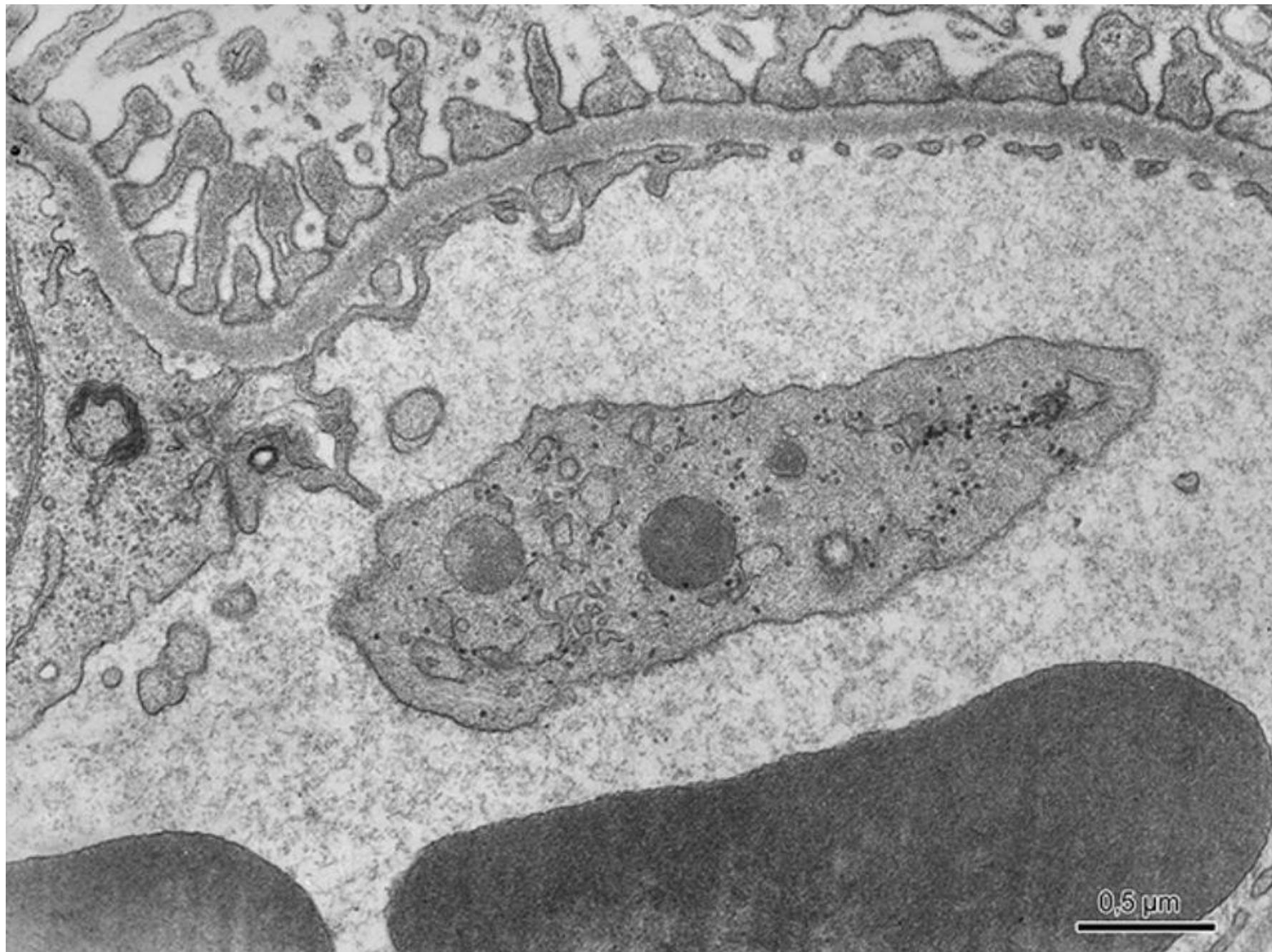
- pyramides renales (10 – 18)
- papillae renales
- foramina papillaria in area cribrosa
- medullary rays



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



Fenestrated capillary of glomerulus - filtration barrier

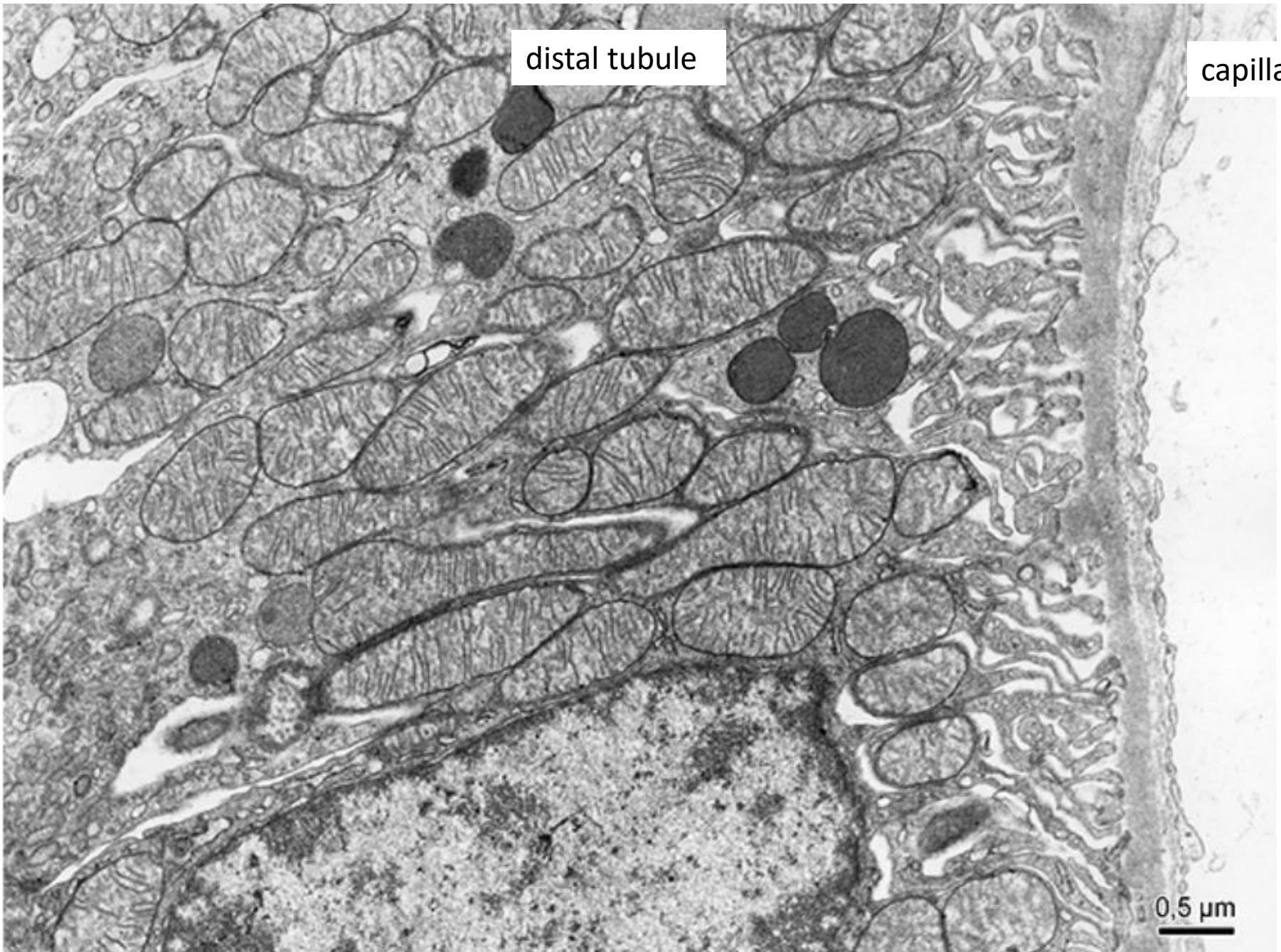


Basal labyrinth

distal tubule

capillary

0.5 μ m



Ren – medulla, (HE), objektiv 40×



Calyx renalis, (HE), objektiv 2,5×

Transitional
epithelium

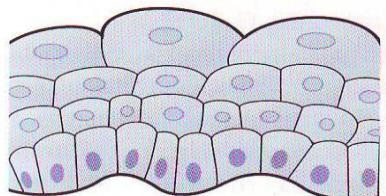
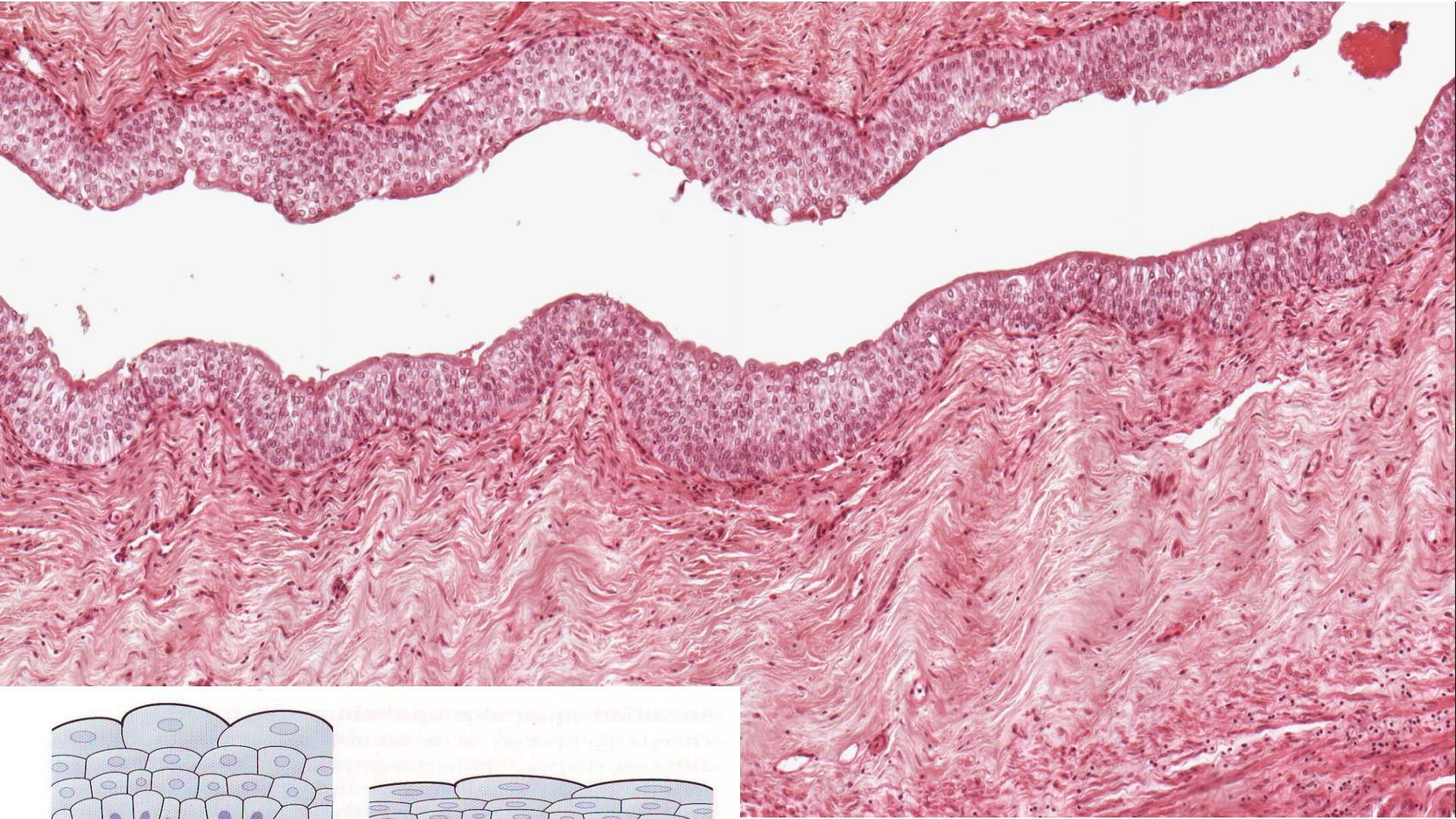
calyx renalis

Adipose tissue

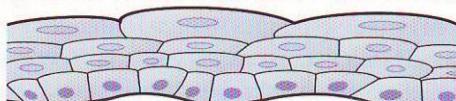
artery

20 µm

Calyx renalis (HE)



A Relaxed



B Stretched

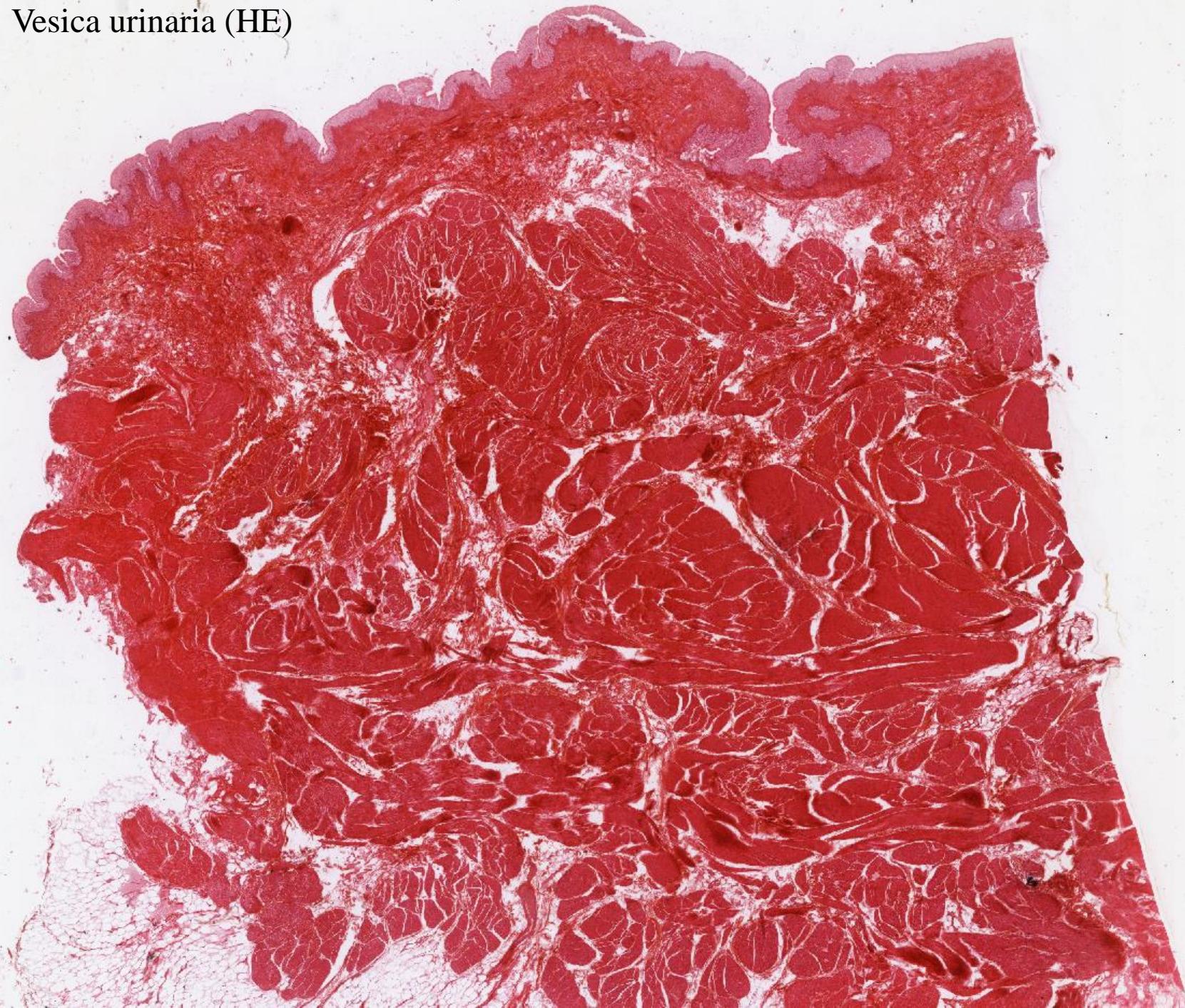
Transitional epithelium: A. Relaxed. B. Stretched.

Ureter (HES)

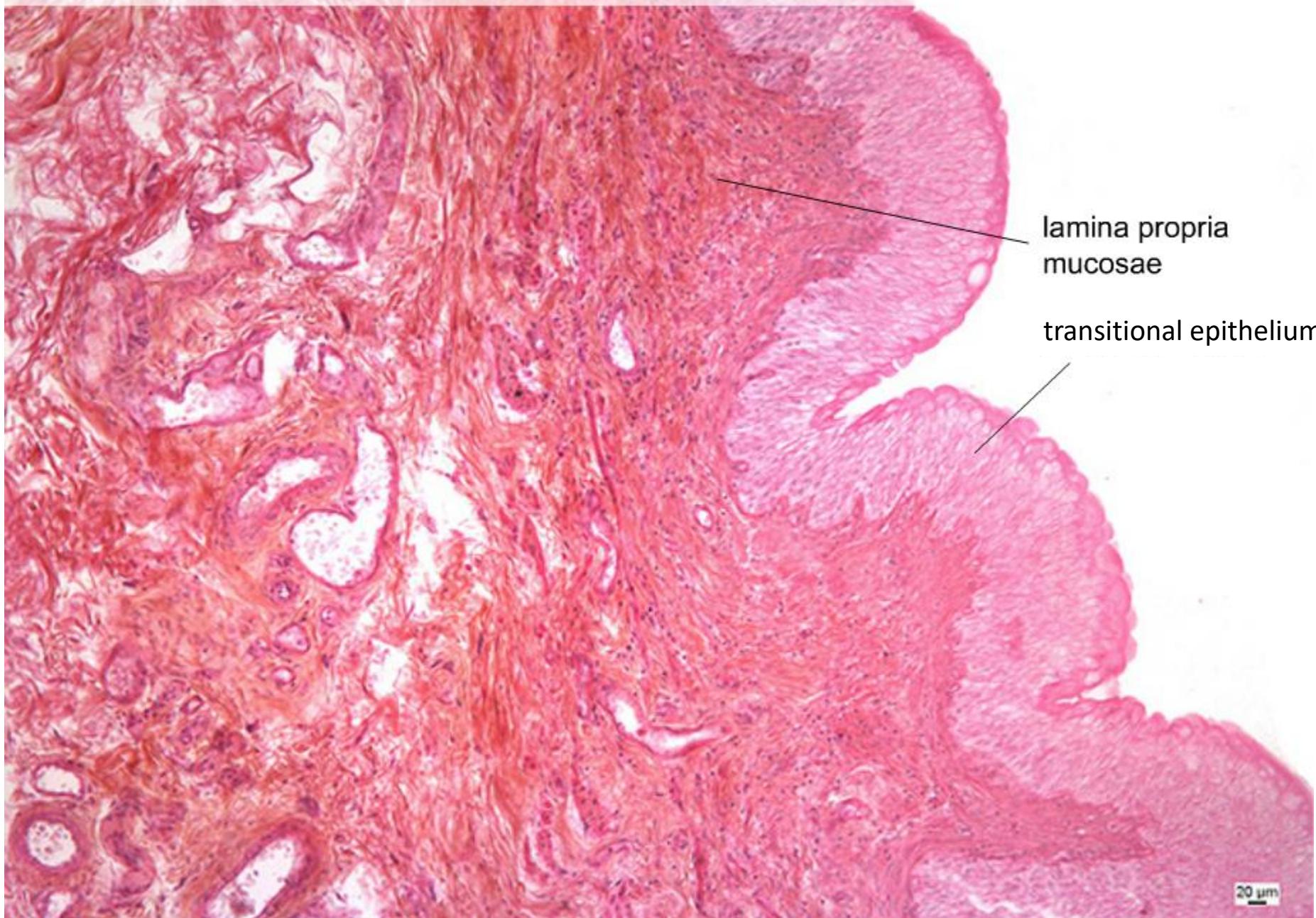


20 μ m

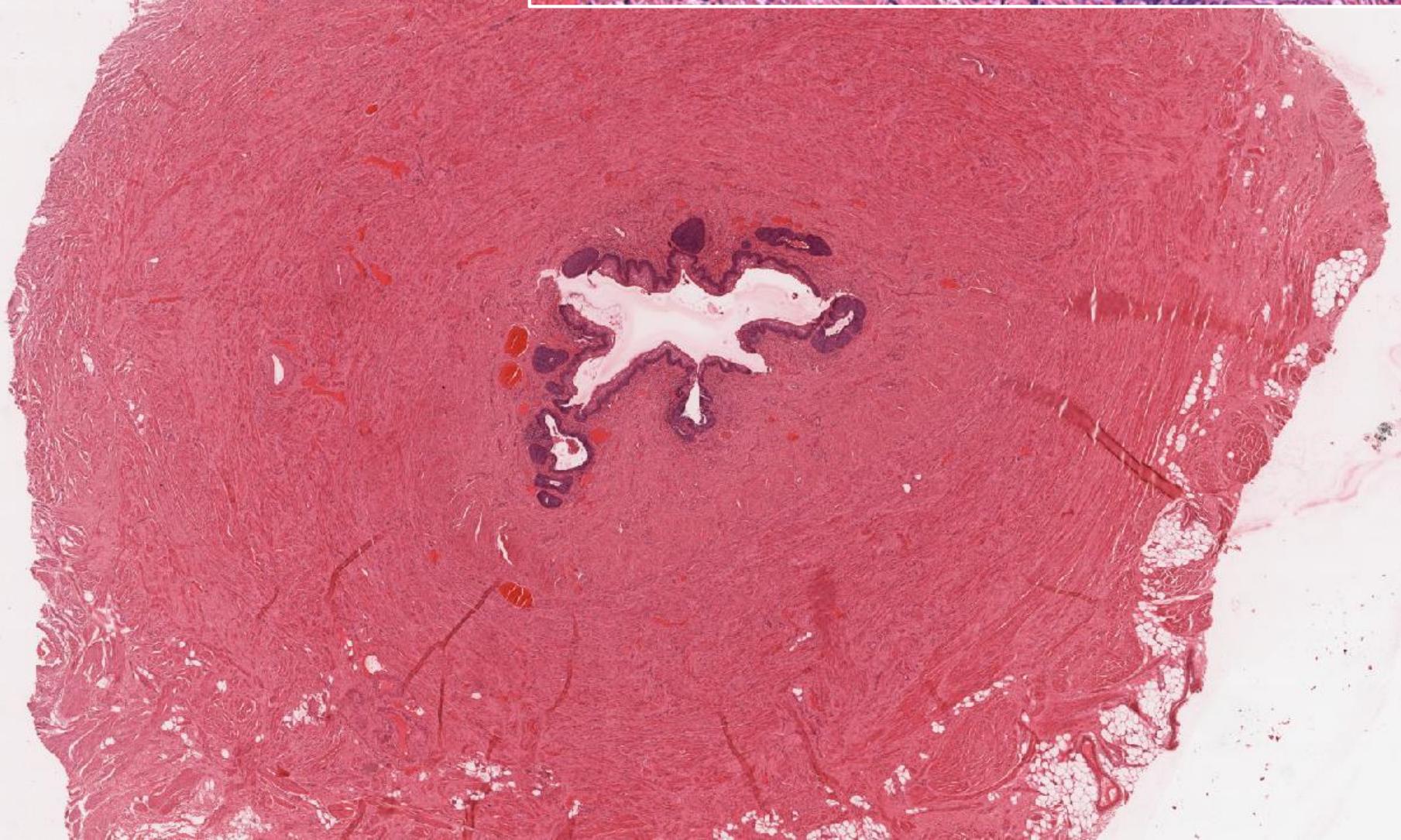
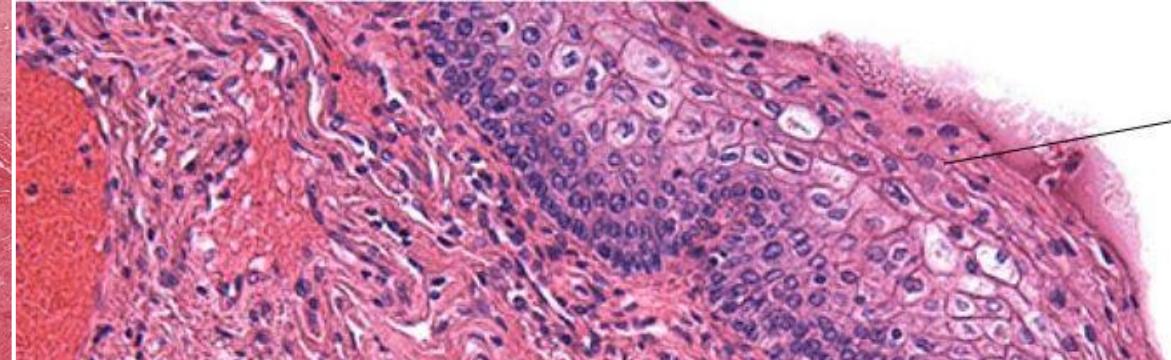
Vesica urinaria (HE)



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



Urethra feminina (HE)



Penis – pars spongiosa urethrae masculinae (HE)

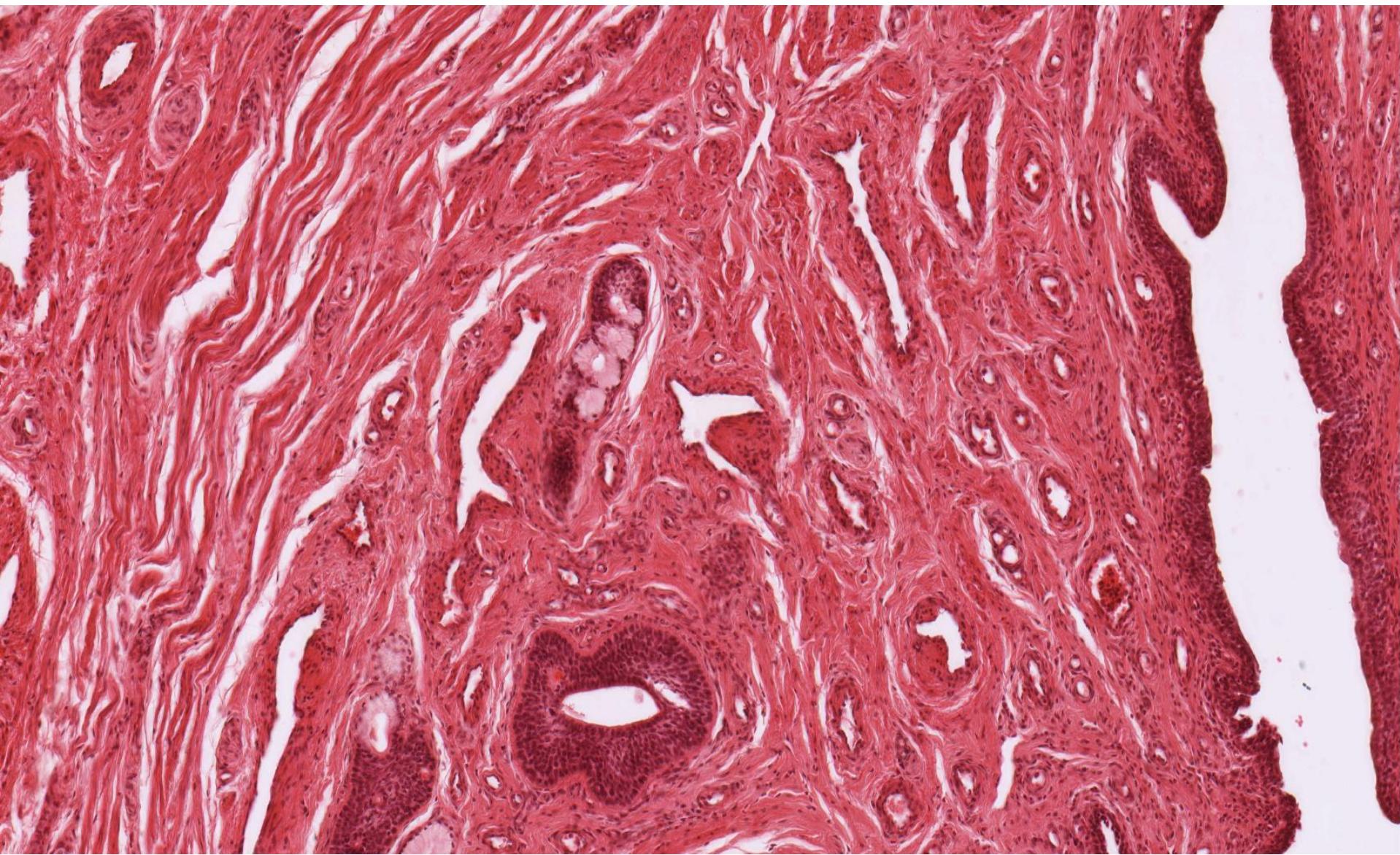


Urethra masculina – přehled, glandulae paraurethrales, (HE), objektiv 2,5×

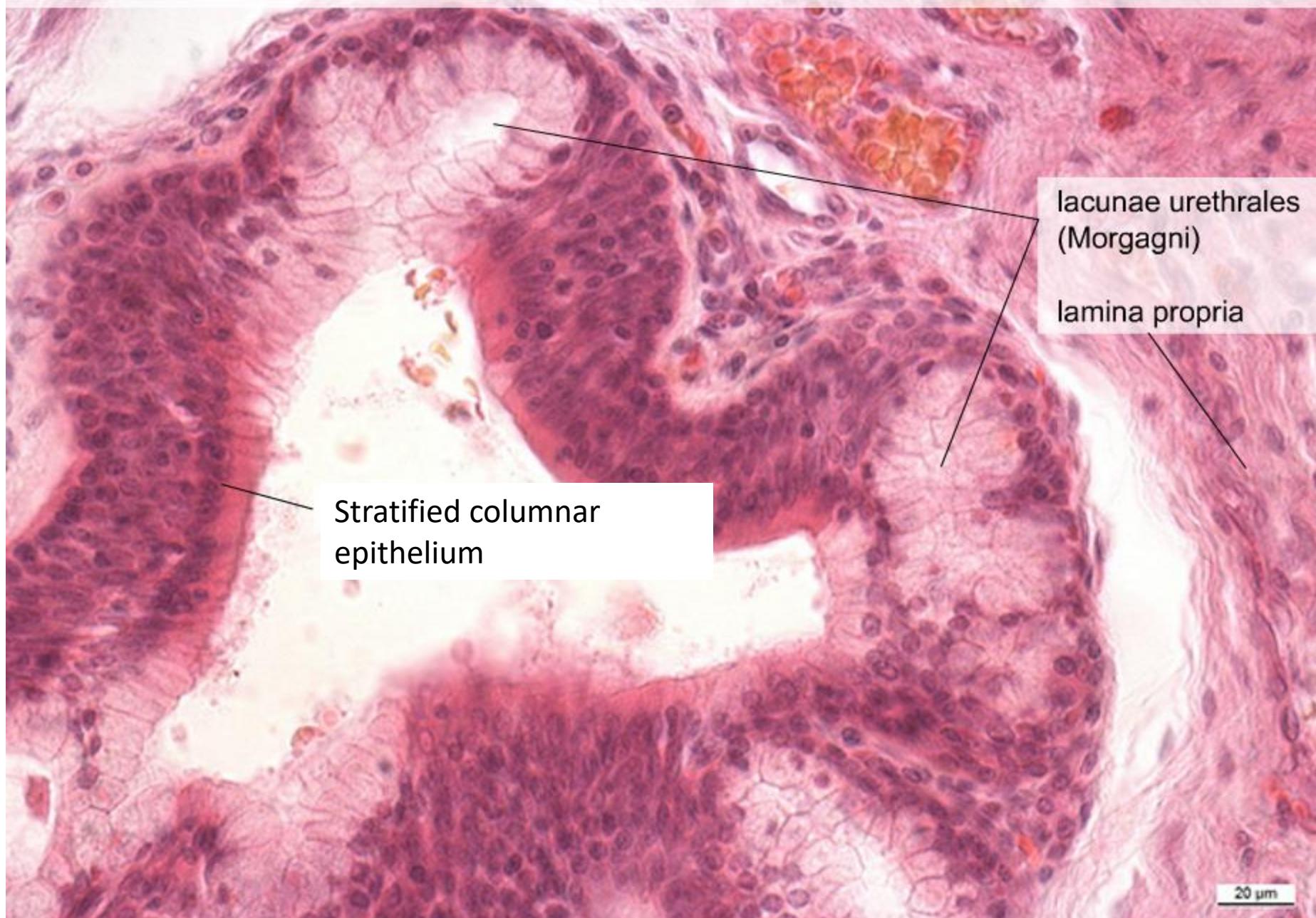


20 µm

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)

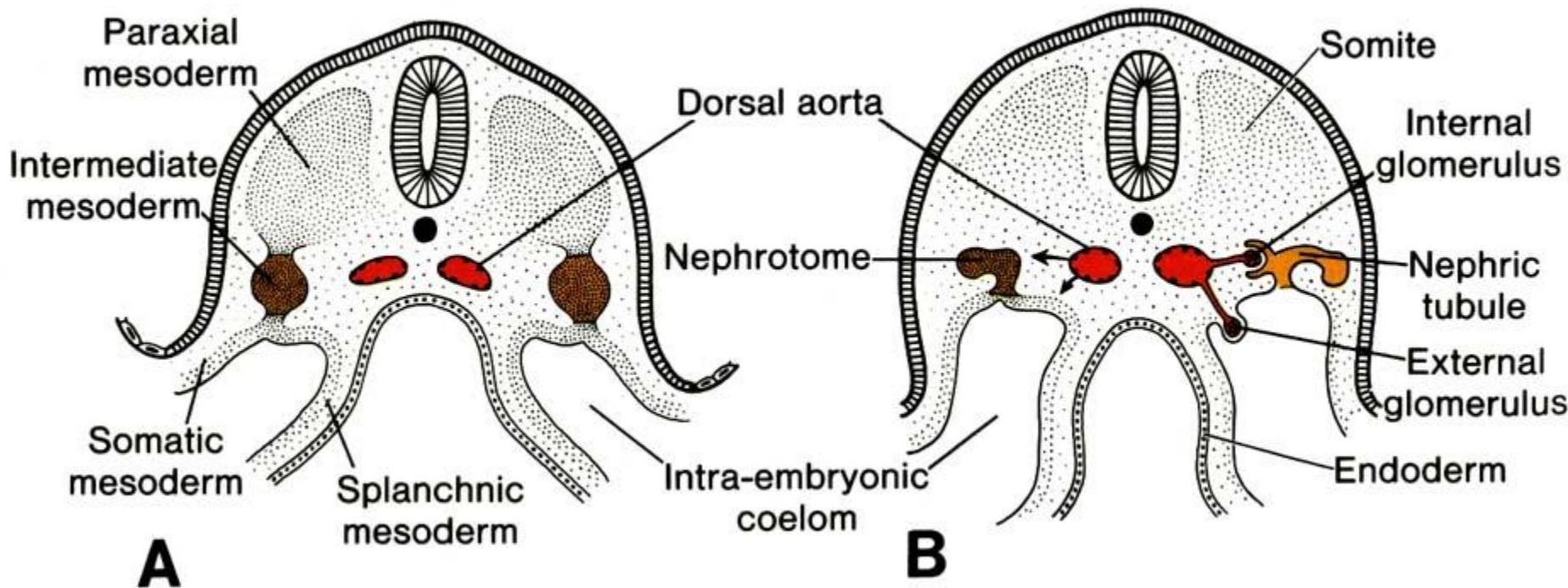
fenestrated capillary of glomerulus (57)

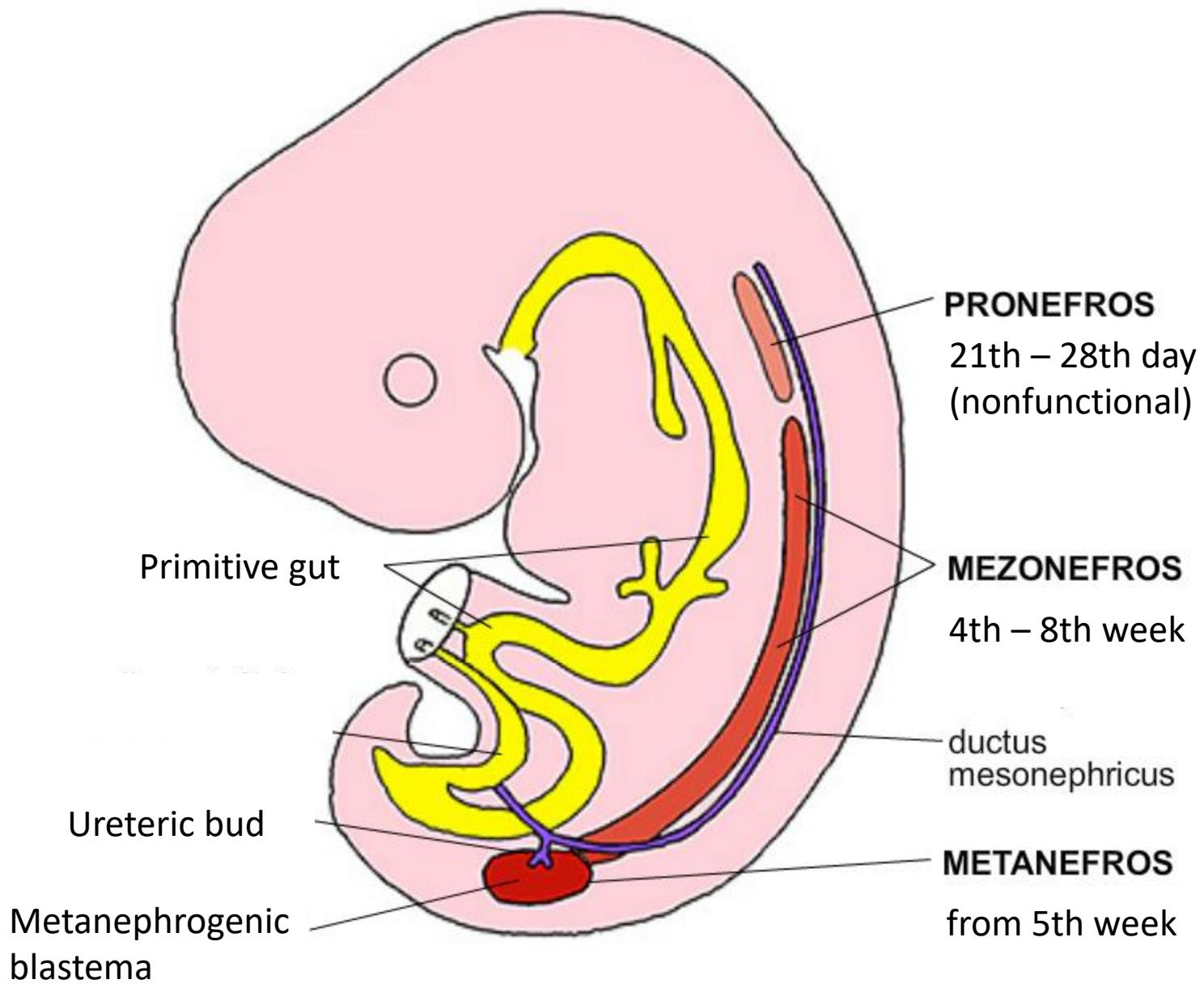
corpusculum renis with filtration barrier (69)

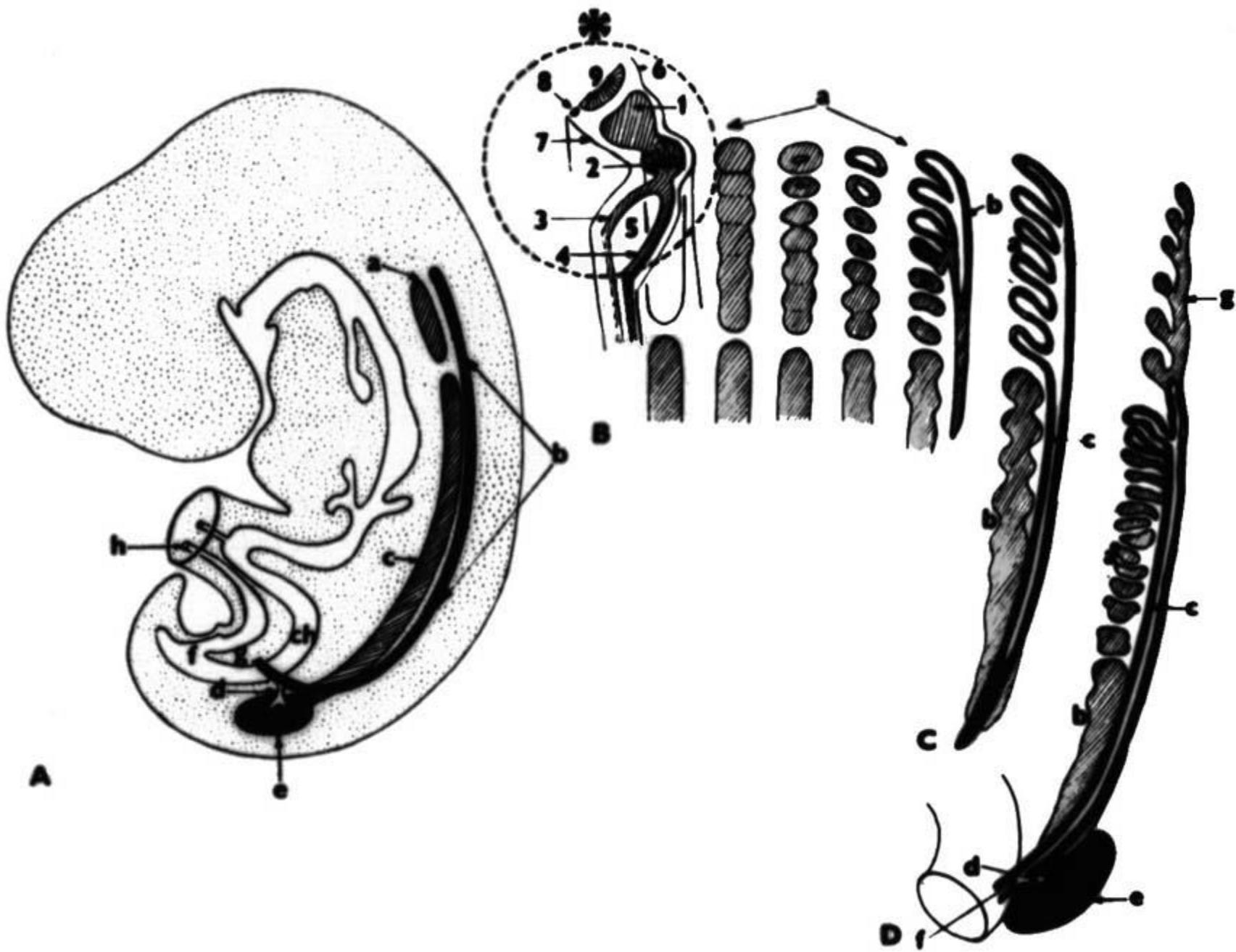
tubulus proximalis et distalis (70)

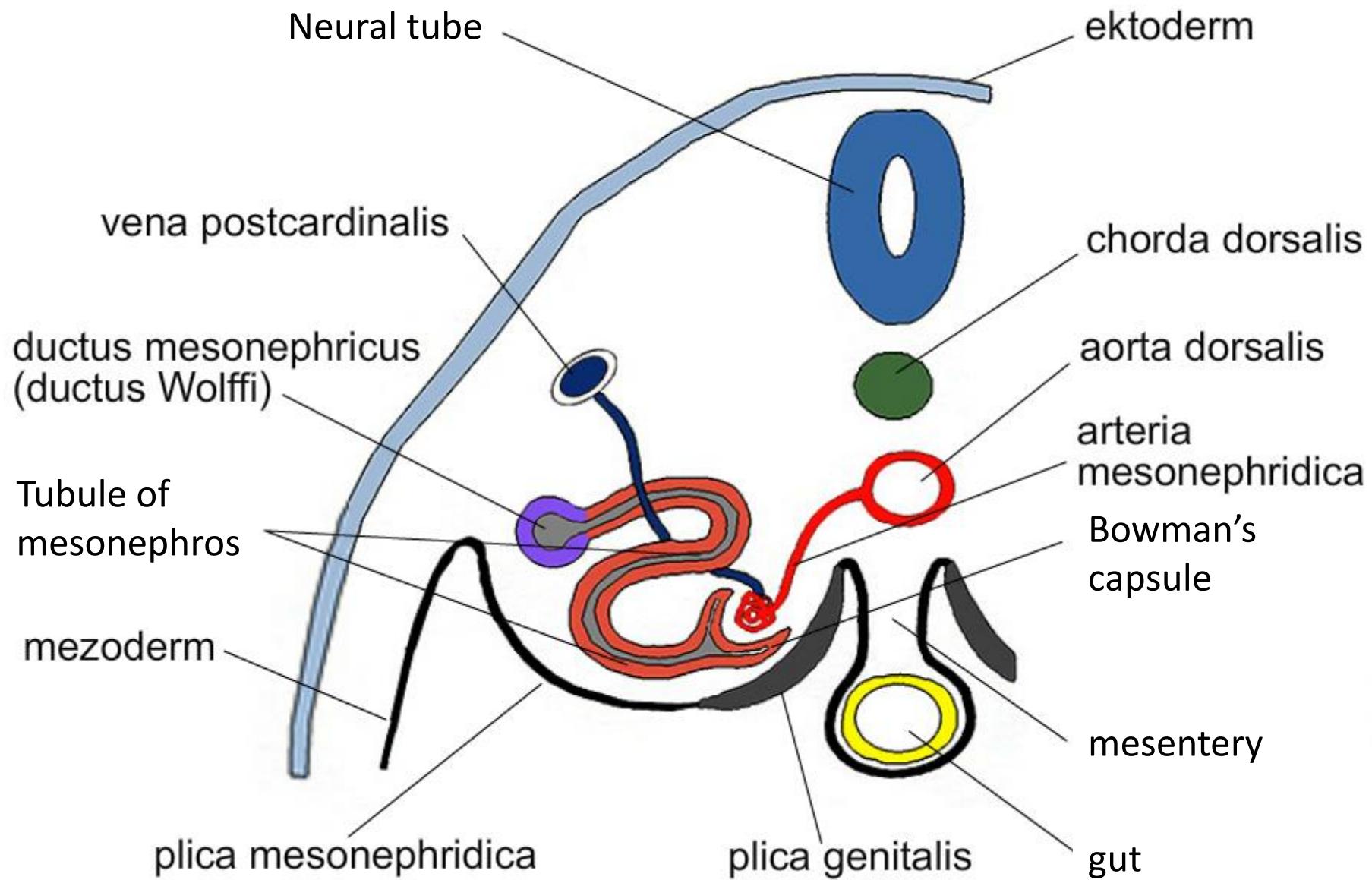
development of kidney (94)

Development of urinary system

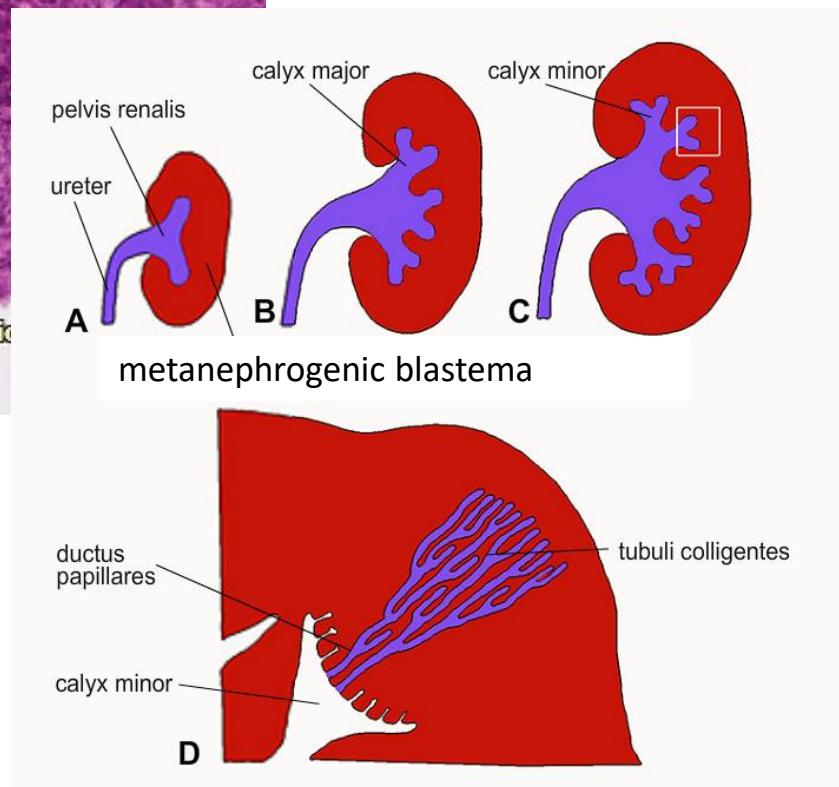
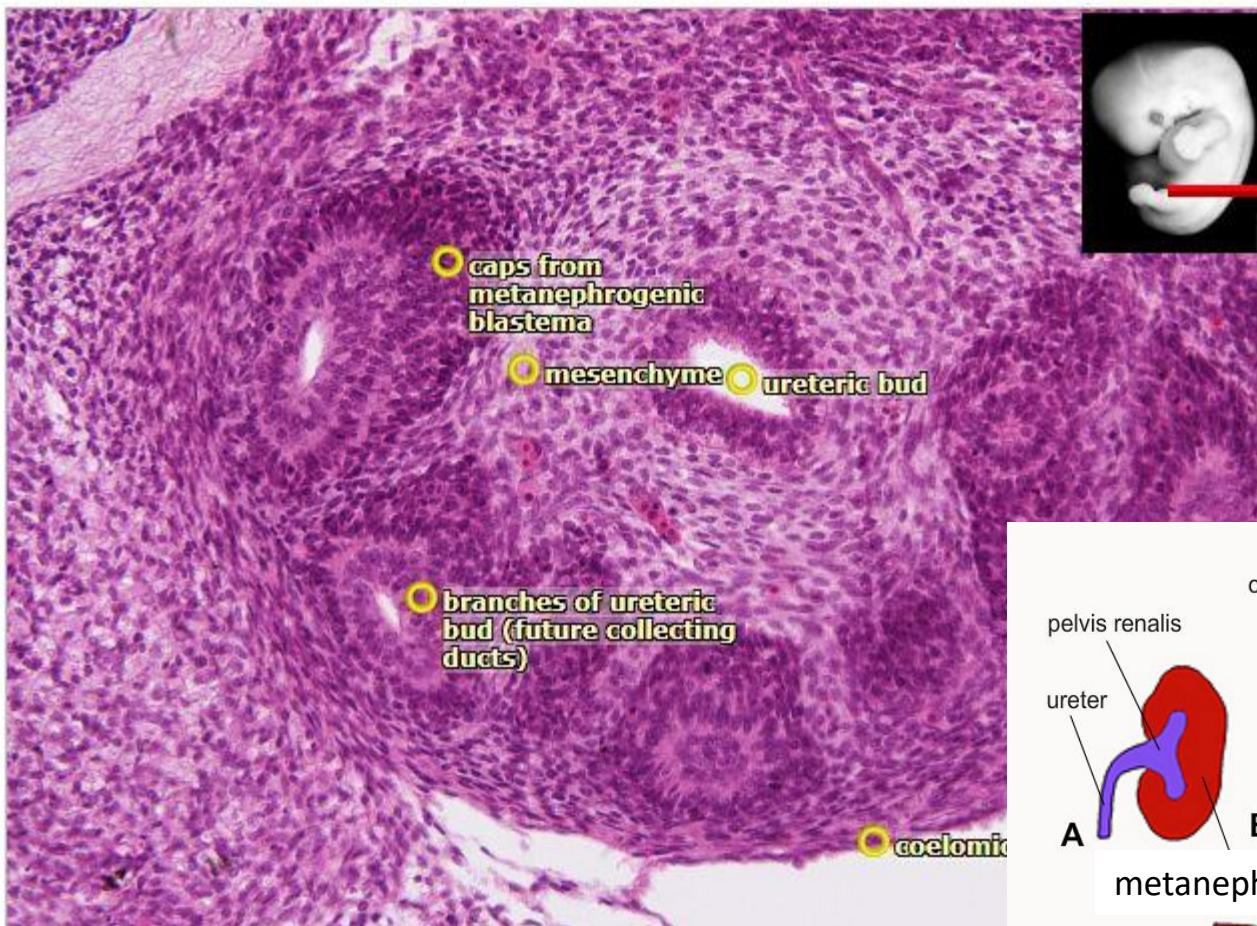






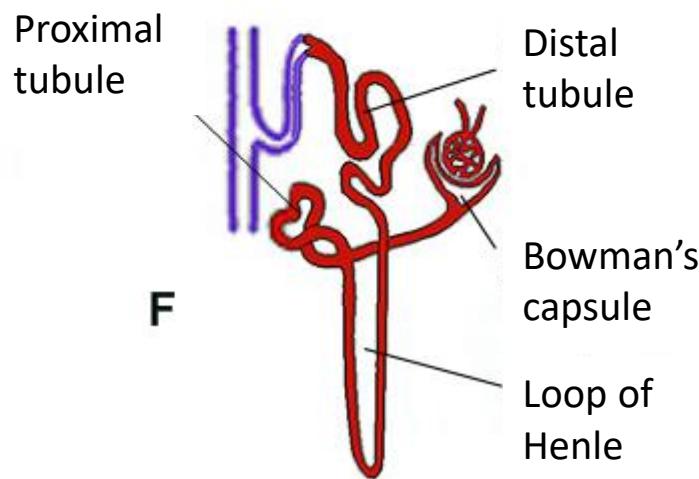
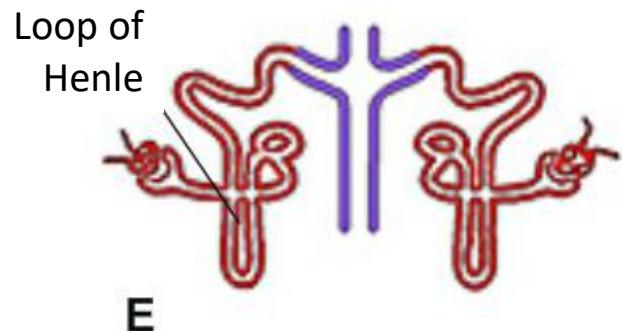
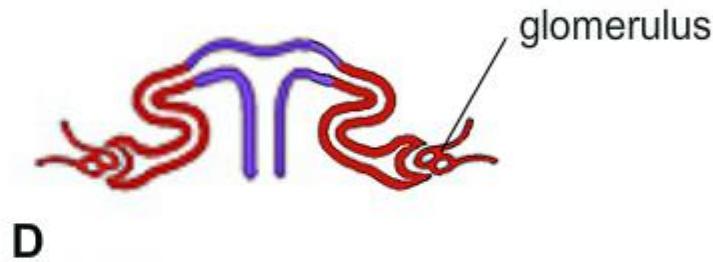
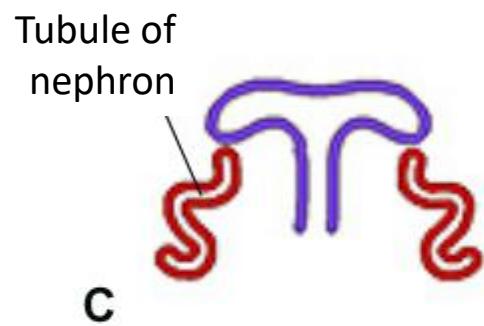
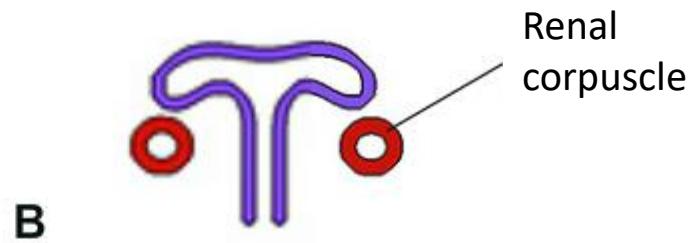
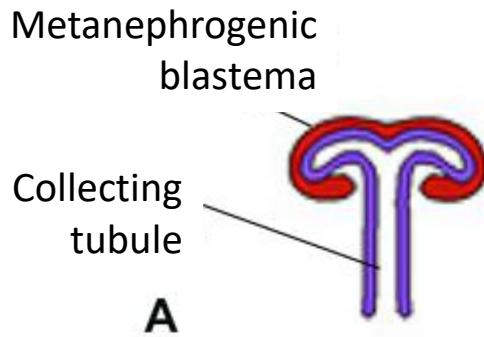


6-2 Human embryo (7th week) – cross-section through the body, HE, magn. 200x



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

Development of nephrons



Septation of cloaca

