

TS25 urinary and reproductive systems (17dpc)

EMAP:25790	mouse
EMAP:9800	└ organ system
EMAP:9801	└ visceral organ
EMAP:10886	└ urinary system
EMAP:10894	└ mesentery
EMAP:29615	└ rest of mesentery
EMAP:10895	└ urogenital mesentery
EMAP:10896	└ metanephros (syn: kidney)
EMAP:10907	└ renal capsule
EMAP:27726	└ nephrogenic zone
EMAP:27733	└ nephrogenic interstitium (syn: peripheral blastema)
EMAP:27740	└ cap mesenchyme (syn: condensed mesenchyme)
EMAP:27747	└ pretubular aggregate (syn: pretubular condensate)
EMAP:27754	└ ureteric tip (syn: ureteric ampulla)
EMAP:31050	└ ureteric tree terminal branch excluding tip itself
EMAP:10906	└ renal cortex
EMAP:27833	└ renal vesicle (syn: epithelial vesicle; stage I nephron)
EMAP:31697	└ renal connecting segment of renal vesicle
EMAP:31728	└ distal renal vesicle
EMAP:31722	└ proximal renal vesicle
EMAP:27839	└ comma-shaped body
EMAP:27845	└ upper limb of comma-shaped body (syn: distal limb of comma-shaped body)
EMAP:27851	└ lower limb of comma-shaped body (syn: proximal limb of comma-shaped body)
EMAP:31714	└ renal connecting segment of comma-shaped body
EMAP:27857	└ s-shaped body (syn: stage II nephron)
EMAP:27869	└ renal connecting tubule of s-shaped body
EMAP:27875	└ distal segment of s-shaped body (syn: upper limb of s-shaped body)
EMAP:27881	└ medial segment of s-shaped body (syn: mid-portion of s-shaped body)
EMAP:27887	└ proximal segment of s-shaped body (syn: lower limb of s-shaped body)
EMAP:27899	└ visceral epithelium of s-shaped body
EMAP:27905	└ parietal epithelium of s-shaped body
EMAP:27911	└ capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron)
EMAP:27929	└ associated interstitium of renal corpuscle
EMAP:27923	└ parietal epithelium
EMAP:27941	└ presumptive endothelium of renal corpuscle
EMAP:27935	└ presumptive mesangium
EMAP:27917	└ visceral epithelium of capillary loop renal corpuscle (syn: podocyte layer)
EMAP:27947	└ maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron)
EMAP:27953	└ maturing glomerular tuft (syn: maturing glomerulus)
EMAP:27959	└ glomerular capillary system of maturing glomerular tuft
EMAP:27965	└ glomerular mesangium
EMAP:27971	└ visceral epithelium of maturing renal corpuscle (syn: podocyte layer)
EMAP:30969	└ glomerular basement membrane
EMAP:27977	└ Bowman's capsule (syn: glomerular capsule)
EMAP:27983	└ parietal epithelium
EMAP:27989	└ urinary space of renal corpuscle (syn: Bowman's space)
EMAP:30035	└ glomerular mesangium of Bowman's capsule
EMAP:27995	└ juxtaglomerular arteriole
EMAP:28231	└ afferent arteriole
EMAP:28234	└ efferent arteriole
EMAP:28237	└ mature renal corpuscle (syn: Malpighian corpuscle)
EMAP:28240	└ glomerular tuft (syn: glomerulus)
EMAP:28246	└ glomerular capillary system
EMAP:28249	└ glomerular mesangium
EMAP:28252	└ glomerular basement membrane
EMAP:28255	└ visceral epithelium of mature renal corpuscle (syn: podocyte layer)
EMAP:28258	└ Bowman's capsule (syn: glomerular capsule)
EMAP:28261	└ parietal epithelium
EMAP:28264	└ urinary space of renal corpuscle (syn: Bowman's space)
EMAP:28267	└ afferent arteriole
EMAP:28270	└ part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:28273	└ rest of afferent arteriole
EMAP:28276	└ efferent arteriole
EMAP:28279	└ extraglomerular mesangium
EMAP:10916	└ cortical renal tubule
EMAP:28282	└ renal proximal tubule
EMAP:28285	└ early proximal tubule
EMAP:31705	└ early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)

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EMAP: 31613						└─┬ early proximal tubule of maturing nephron
EMAP: 28288						└─┬ renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP: 31285						└─┬ anlage of loop of Henle (syn: primitive loop of Henle)
EMAP: 28388						└─┬ renal distal tubule
EMAP: 28391						└─┬ early distal tubule
EMAP: 31640						└─┬ early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP: 31619						└─┬ early distal tubule of maturing nephron
EMAP: 28394						└─┬ distal convoluted tubule (syn: second convoluted tubule)
EMAP: 28397						└─┬ distal straight tubule (syn: thick ascending limb)
EMAP: 31380						└─┬ premacula segment of distal straight tubule
EMAP: 28400						└─┬ macula densa
EMAP: 28403						└─┬ postmacula segment of distal straight tubule
EMAP: 28015						└─┬ renal connecting tubule
EMAP: 31625						└─┬ renal connecting tubule of capillary loop nephron
EMAP: 31631						└─┬ renal connecting tubule of maturing nephron
EMAP: 31634						└─┬ renal connecting tubule of mature nephron
EMAP: 28134						└─┬ cortical collecting duct
EMAP: 28140						└─┬ renal cortical interstitium (syn: cortical stroma)
EMAP: 31292						└─┬ renal cortical fibroblasts
EMAP: 31300						└─┬ resident macrophages of the cortex (syn: renal monocytes of the cortex)
EMAP: 31308						└─┬ rest of renal cortical interstitium
EMAP: 28145						└─┬ renal cortical vasculature
EMAP: 28150						└─┬ renal cortical arterial system
EMAP: 28213						└─┬ interlobular artery
EMAP: 28216						└─┬ arcuate artery
EMAP: 28155						└─┬ renal cortical venous system
EMAP: 28219						└─┬ interlobular vein
EMAP: 28222						└─┬ arcuate vein
EMAP: 30040						└─┬ renal cortical capillary
EMAP: 31315						└─┬ renal cortical lymphatics
EMAP: 31322						└─┬ renal cortical nerves
EMAP: 28045						└─┬ renal medulla
EMAP: 28311						└─┬ outer medulla
EMAP: 28323						└─┬ loop of Henle, outer medullary portion
EMAP: 28326						└─┬ thin descending limb
EMAP: 28329						└─┬ thin ascending limb (syn: ascending thin limb)
EMAP: 28863						└─┬ proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
EMAP: 28332						└─┬ premacula segment of distal straight tubule (syn: thick ascending limb)
EMAP: 28338						└─┬ outer medullary interstitium
EMAP: 31385						└─┬ outer medullary fibroblast
EMAP: 31390						└─┬ resident macrophage of the outer medulla (syn: renal monocytes of the outer medulla)
EMAP: 31395						└─┬ rest of outer medullary interstitium
EMAP: 28347						└─┬ outer medullary collecting duct
EMAP: 28350						└─┬ inner medulla (syn: papilla)
EMAP: 28353						└─┬ loop of Henle, inner medullary portion
EMAP: 28356						└─┬ thin descending limb
EMAP: 28359						└─┬ bend (syn: U-turn)
EMAP: 28362						└─┬ thin ascending limb (syn: ascending thin limb)
EMAP: 28365						└─┬ inner medullary interstitium (syn: papillary interstitium)
EMAP: 31400						└─┬ inner medullary fibroblast
EMAP: 31405						└─┬ resident macrophage of the inner medulla (syn: renal monocytes of the inner medulla)
EMAP: 31410						└─┬ rest of inner medullary interstitium
EMAP: 28371						└─┬ inner medullary collecting duct (syn: papillary collecting duct)
EMAP: 28160						└─┬ renal medullary vasculature
EMAP: 28165						└─┬ renal medullary arterial system
EMAP: 28170						└─┬ renal medullary venous system
EMAP: 30046						└─┬ renal medullary capillary (syn: vasa recta)
EMAP: 31350						└─┬ renal medullary lymphatics
EMAP: 31357						└─┬ renal medullary nerves
EMAP: 10899						└─┬ calyx
EMAP: 10900						└─┬ major
EMAP: 10901						└─┬ minor
EMAP: 10902						└─┬ pelvis
EMAP: 28081						└─┬ pelvic urothelial lining (syn: pelvic urothelium)
EMAP: 28123						└─┬ pelvic smooth muscle
EMAP: 28087						└─┬ perihilar interstitium
EMAP: 31363						└─┬ perihilar fibroblast
EMAP: 31369						└─┬ resident macrophage of the perihilar interstitium (syn: renal monocytes of the perihilar
interstitium)						└─┬ rest of perihilar interstitium
EMAP: 31375						└─┬ renal artery
EMAP: 28374						└─┬ endothelial layer of renal artery
EMAP: 29979						└─┬ endothelium of renal artery
EMAP: 30000						└─┬ endothelium of renal artery

EMAP:30008							└	smooth muscle layer of renal artery
EMAP:28377							└	renal vein
EMAP:29967							└	└ endothelial layer of renal vein
EMAP:30016							└	└ endothelium of renal vein
EMAP:30024							└	└ smooth muscle layer of renal vein
EMAP:10904							└	ureter
EMAP:28093							└	└ urothelium of ureter (syn: transitional epithelium)
EMAP:28593							└	└ └ superficial cell layer of ureter (syn: umbrella cell)
EMAP:28804							└	└ └ intermediate cell layer of ureter
EMAP:28809							└	└ └ └ basal cell layer of ureter
EMAP:28842							└	└ lamina propria
EMAP:28845							└	└ ureteral smooth muscle layer
EMAP:28848							└	└ └ smooth muscle component
EMAP:28851							└	└ └ └ interstitium (syn: Cajal cell)
EMAP:28118							└	└ adventitia of ureter
EMAP:30856							└	└ └ ureteral vasculature
EMAP:10888							└	bladder
EMAP:28605							└	└ urothelium of bladder (syn: epithelium of bladder)
EMAP:32378							└	└ └ superficial cell layer of bladder
EMAP:32385							└	└ └ basal cell layer of bladder
EMAP:28611							└	└ urothelium of fundus
EMAP:28617							└	└ urothelium of trigone
EMAP:30085							└	└ └ urothelium of neck
EMAP:30092							└	lamina propria of bladder
EMAP:30106							└	└ lamina propria of fundus
EMAP:30113							└	└ lamina propria of trigone
EMAP:30120							└	└ └ lamina propria of neck
EMAP:28623							└	└ muscularis mucosa of bladder
EMAP:28629							└	└ └ muscularis mucosa of fundus
EMAP:28635							└	└ └ muscularis mucosa of trigone
EMAP:30141							└	└ └ └ muscularis mucosa of neck
EMAP:32392							└	submucosa of bladder
EMAP:32406							└	└ submucosa of fundus
EMAP:32505							└	└ submucosa of trigone
EMAP:32399							└	└ └ submucosa of neck
EMAP:28641							└	detrusor muscle of bladder
EMAP:28647							└	└ detrusor muscle of fundus
EMAP:28653							└	└ detrusor muscle of trigone
EMAP:30127							└	└ └ detrusor muscle of neck
EMAP:28665							└	serosa of bladder
EMAP:28671							└	└ serosa of fundus
EMAP:28677							└	└ serosa of trigone
EMAP:30134							└	└ └ serosa of neck
EMAP:28829							└	adventitia of bladder
EMAP:28834							└	└ adventitia of fundus
EMAP:28839							└	└ adventitia of trigone
EMAP:30147							└	└ └ adventitia of neck
EMAP:28683							└	└ vasculature of bladder (syn: blood vessel of bladder)
EMAP:31657							└	└ └ nerve of bladder
EMAP:10891							└	urachus
EMAP:28751							└	urethra of female
EMAP:28757							└	└ pelvic urethra of female
EMAP:28763							└	└ └ urothelium of pelvic urethra of female
EMAP:32348							└	└ └ └ urothelium of dorsal pelvic urethra of female
EMAP:32355							└	└ └ └ └ superficial cell layer of dorsal pelvic urethra of female
EMAP:32517							└	└ └ └ └ intermediate cell layer of dorsal pelvic urethra of female
EMAP:32361							└	└ └ └ └ └ basal cell layer of dorsal pelvic urethra of female
EMAP:32422							└	└ └ urothelium of ventral pelvic urethra of female
EMAP:32458							└	└ └ └ superficial cell layer of ventral pelvic urethra of female
EMAP:32511							└	└ └ └ intermediate cell layer of ventral pelvic urethra of female
EMAP:32464							└	└ └ └ └ basal cell layer of ventral pelvic urethra of female
EMAP:28769							└	mesenchymal layer of pelvic urethra of female
EMAP:31750							└	└ mesenchymal layer of dorsal pelvic urethra of female
EMAP:32480							└	└ └ lamina propria of dorsal pelvic urethra of female (syn: peri-epithelial mesenchymal layer of dorsal pelvic urethra of female; sub-epithelial mesenchymal layer of dorsal pelvic urethra of female)
EMAP:32476							└	└ └ └ muscularis mucosa of dorsal pelvic urethra of female
EMAP:32547							└	└ └ └ └ submucosa of dorsal pelvic urethra of female
EMAP:31747							└	mesenchymal layer of ventral pelvic urethra of female
EMAP:32535							└	└ lamina propria of ventral pelvic urethra of female (syn: peri-epithelial mesenchymal layer of ventral pelvic urethra of female; sub-epithelial mesenchymal layer of ventral pelvic urethra of female)
EMAP:32531							└	└ └ muscularis mucosa of ventral pelvic urethra of female
EMAP:32527							└	└ └ └ submucosa of ventral pelvic urethra of female
EMAP:32440							└	└ └ mesenchymal pad of pelvic urethra of female

EMAP: 32598						└	adventitia of seminal vesicle
EMAP: 32562						└	vasculature of seminal vesicle
EMAP: 10947						└	efferent duct of seminal vesicle (syn: vasa efferentia)
EMAP: 29319						└	epididymis
EMAP: 30587						└	caput epididymis
EMAP: 30613							└ epithelium of caput of epididymis
EMAP: 30617							└ muscle layer of caput of epididymis
EMAP: 30621							└ adventitia of caput of epididymis
EMAP: 31206						└	developing vasculature of caput epididymis
EMAP: 30583						└	cauda epididymis
EMAP: 30589							└ epithelium of cauda of epididymis
EMAP: 30593							└ muscle layer of cauda of epididymis
EMAP: 30597							└ adventitia of cauda of epididymis
EMAP: 31196						└	developing vasculature of cauda epididymis
EMAP: 30585						└	corpus epididymis
EMAP: 30601							└ epithelium of corpus epididymis
EMAP: 30605							└ muscle layer of corpus of epididymis
EMAP: 30609							└ adventitia of corpus of epididymis
EMAP: 31201						└	developing vasculature of corpus epididymis
EMAP: 31185						└	developing vasculature of epididymis
EMAP: 10938						└	ductus deferens (syn: vas deferens)
EMAP: 29276							└ epithelium of ductus deferens
EMAP: 29272							└ muscle layer of ductus deferens
EMAP: 31191						└	developing vasculature of ductus deferens
EMAP: 12723						└	appendix epididymis
EMAP: 12726						└	appendix testis
EMAP: 12729						└	ejaculatory duct
EMAP: 32590							└ epithelial layer of ejaculatory duct
EMAP: 32368							└ mesenchymal layer of ejaculatory duct
EMAP: 32447							└ muscle layer of ejaculatory duct
EMAP: 32566						└	vasculature of ejaculatory duct
EMAP: 32606						└	male accessory gland
EMAP: 32608						└	prostate gland
EMAP: 32452							└ epithelial layer of prostate gland
EMAP: 32416						└	peri-prostatic mesenchyme of prostate gland
EMAP: 12733						└	gubernaculum (syn: caudal suspensory ligament)
EMAP: 10940						└	mesorchium
EMAP: 10941						└	penis (syn: genital tubercle of male)
EMAP: 10942						└	glans penis
EMAP: 30647							└ surface epithelium of glans penis
EMAP: 30643						└	mesenchyme of glans penis
EMAP: 30663						└	crus penis
EMAP: 30669							└ surface epithelium of crus penis
EMAP: 30665						└	mesenchyme of crus penis
EMAP: 10943						└	prepuce of male
EMAP: 30656							└ prepuce surface epithelium of male
EMAP: 30660							└ preputial gland of male
EMAP: 30651						└	prepuce mesenchyme of male
EMAP: 29317						└	scrotal fold
EMAP: 30626							└ scrotal fold mesenchyme of male
EMAP: 30629						└	scrotal fold surface epithelium of male
EMAP: 10917						└	female reproductive system
EMAP: 10923						└	ovary
EMAP: 10924							└ surface epithelium of ovary (syn: coelomic epithelium)
EMAP: 30523							└ tunica albuginea of ovary (syn: ovarian capsule)
EMAP: 28886						└	mesenchymal stroma of ovary
EMAP: 29012							└ cortical component of mesenchymal stroma
EMAP: 31042							└ rest of cortical component of mesenchymal stroma of ovary
EMAP: 31037						└	pre-granulosa cell
EMAP: 29017						└	medullary component of mesenchymal stroma
EMAP: 31031						└	meiotic oocytes
EMAP: 28894						└	developing vasculature of ovary
EMAP: 10928						└	rete ovarii of ovary
EMAP: 10922						└	mesovarium
EMAP: 10925						└	cystic vesicular appendage
EMAP: 12720						└	suspensory ligament of ovary
EMAP: 10918						└	Mullerian tubercle
EMAP: 10934						└	oviduct
EMAP: 29044							└ epithelial layer of oviduct
EMAP: 29047							└ muscle layer of oviduct
EMAP: 29050							└ outer layer of oviduct
EMAP: 31216						└	developing vasculature of oviduct

EMAP:10935 | | | - uterine horn (syn: uterus)
EMAP:29032 | | | | - epithelium (syn: endometrium)
EMAP:29036 | | | | - muscular layer (syn: myometrium)
EMAP:31211 | | | | - developing vasculature of uterine horn
EMAP:30677 | | | | | - outer layer of uterine horn
EMAP:10936 | | | | - vagina
EMAP:10954 | | | | | - lower part of vagina (syn: sinus vagina)
EMAP:29059 | | | | | | - epithelial layer of lower part of vagina
EMAP:32321 | | | | | | - mesenchymal layer of lower part of vagina
EMAP:29063 | | | | | | - muscular layer of lower part of vagina
EMAP:31226 | | | | | | | - developing vasculature of lower part of vagina
EMAP:10937 | | | | | - upper part of vagina
EMAP:29053 | | | | | | - epithelial layer of upper part of vagina
EMAP:32372 | | | | | | - mesenchymal layer of upper part of vagina
EMAP:29056 | | | | | | - muscular layer of upper part of vagina
EMAP:31221 | | | | | | | - developing vasculature of upper part of vagina
EMAP:10919 | | | | - genital tubercle of female
EMAP:12986 | | | | | - glans clitoris
EMAP:30721 | | | | | | - surface epithelium of glans clitoris
EMAP:30716 | | | | | | | - mesenchyme of glans clitoris
EMAP:12984 | | | | | - crus of clitoris
EMAP:30731 | | | | | | - surface epithelium of crus of clitoris
EMAP:30726 | | | | | | | - mesenchyme of crus of clitoris
EMAP:30700 | | | | | - prepuce of female
EMAP:30708 | | | | | | - prepuce surface epithelium of female
EMAP:30712 | | | | | | - preputial gland of female
EMAP:30704 | | | | | | | - prepuce mesenchyme of female
EMAP:10921 | | | | - labial swelling (syn: labia)
EMAP:30440 | | | | | - surface epithelium of labial swelling
EMAP:30435 | | | | | | - mesenchymal layer of labial swelling
EMAP:12988 | | | | - inguinal canal
EMAP:12990 | | | | | - inguinal ring
EMAP:12992 | | | | | | - internal (syn: deep)
EMAP:12994 | | | | | | | - external (syn: superficial)

TS25 Groups

'G' : Term is a group.

EMAP:25790	mouse			
EMAP:9800				organ system
EMAP:9801				visceral organ
EMAP:10886				urinary system
EMAP:10896				metanephros (syn: kidney)
EMAP:10906				renal cortex
EMAP:10916				cortical renal tubule
EMAP:31822	G			cortical renal tubule of capillary loop nephron GROUP
EMAP:31285				anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:31640				early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31705				early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31625				└ renal connecting tubule of capillary loop nephron
EMAP:31816	G			cortical renal tubule of maturing nephron GROUP
EMAP:31619				└ early distal tubule of maturing nephron
EMAP:31613				└ early proximal tubule of maturing nephron
EMAP:31631				└ renal connecting tubule of maturing nephron
EMAP:31791	G			└ cortical renal tubule of mature nephron GROUP
EMAP:28394				└ distal convoluted tubule (syn: second convoluted tubule)
EMAP:28397				└ distal straight tubule (syn: thick ascending limb)
EMAP:31380				└ premacula segment of distal straight tubule
EMAP:28400				└ macula densa
EMAP:28403				└ postmacula segment of distal straight tubule
EMAP:31634				└ renal connecting tubule of mature nephron
EMAP:28288				└ renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:28504	G			└ early tubule
EMAP:27833				└ renal vesicle (syn: epithelial vesicle; stage I nephron)
EMAP:31697				└ renal connecting segment of renal vesicle
EMAP:31728				└ distal renal vesicle
EMAP:31722				└ proximal renal vesicle
EMAP:27839				└ comma-shaped body
EMAP:27845				└ upper limb of comma-shaped body (syn: distal limb of comma-shaped body)
EMAP:27851				└ lower limb of comma-shaped body (syn: proximal limb of comma-shaped body)
EMAP:31714				└ renal connecting segment of comma-shaped body
EMAP:27857				└ s-shaped body (syn: stage II nephron)
EMAP:27869				└ renal connecting tubule of s-shaped body
EMAP:27875				└ distal segment of s-shaped body (syn: upper limb of s-shaped body)
EMAP:27881				└ medial segment of s-shaped body (syn: mid-portion of s-shaped body)
EMAP:27887				└ proximal segment of s-shaped body (syn: lower limb of s-shaped body)
EMAP:27899				└ visceral epithelium of s-shaped body
EMAP:27905				└ parietal epithelium of s-shaped body
EMAP:28510	G			└ developing capillary loop stage nephron GROUP (syn: stage III nephron)
EMAP:27911				└ capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron)
EMAP:27929				└ associated interstitium of renal corpuscle
EMAP:27923				└ parietal epithelium
EMAP:27941				└ presumptive endothelium of renal corpuscle
EMAP:27935				└ presumptive mesangium
EMAP:27917				└ visceral epithelium of capillary loop renal corpuscle (syn: podocyte layer)
EMAP:10916				└ cortical renal tubule
EMAP:28282				└ renal proximal tubule
EMAP:28285				└ early proximal tubule
EMAP:31705				└ early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31613				└ early proximal tubule of maturing nephron
EMAP:28288				└ renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:31285				└ anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:28388				└ renal distal tubule
EMAP:28391				└ early distal tubule
EMAP:31640				└ early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31619				└ early distal tubule of maturing nephron
EMAP:28394				└ distal convoluted tubule (syn: second convoluted tubule)
EMAP:28397				└ distal straight tubule (syn: thick ascending limb)
EMAP:31380				└ premacula segment of distal straight tubule
EMAP:28400				└ macula densa
EMAP:28403				└ postmacula segment of distal straight tubule

EMAP:28015									renal connecting tubule
EMAP:31625									├ renal connecting tubule of capillary loop nephron
EMAP:31631									├ renal connecting tubule of maturing nephron
EMAP:31634									└ renal connecting tubule of mature nephron
EMAP:31822									├ cortical renal tubule of capillary loop nephron GROUP
EMAP:31285									├ anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:31640									├ early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31705									├ early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31625									└ renal connecting tubule of capillary loop nephron
EMAP:31816									├ cortical renal tubule of maturing nephron GROUP
EMAP:31619									├ early distal tubule of maturing nephron
EMAP:31613									├ early proximal tubule of maturing nephron
EMAP:31631									└ renal connecting tubule of maturing nephron
EMAP:31791									└ cortical renal tubule of mature nephron GROUP
EMAP:28394									├ distal convoluted tubule (syn: second convoluted tubule)
EMAP:28397									├ distal straight tubule (syn: thick ascending limb)
EMAP:31380									├ └ premacula segment of distal straight tubule
EMAP:28400									├ └ macula densa
EMAP:28403									└ └ postmacula segment of distal straight tubule
EMAP:31634									├ renal connecting tubule of mature nephron
EMAP:28288									└ renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:28489 G									├ maturing nephron (syn: stage IV nephron)
EMAP:27947									├ └ maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron)
EMAP:27953									├ └ maturing glomerular tuft (syn: maturing glomerulus)
EMAP:27959									├ └ glomerular capillary system of maturing glomerular tuft
EMAP:27965									├ └ glomerular mesangium
EMAP:27971									├ └ visceral epithelium of maturing renal corpuscle (syn: podocyte layer)
EMAP:30969									└ └ glomerular basement membrane
EMAP:27977									├ Bowman's capsule (syn: glomerular capsule)
EMAP:27983									├ └ parietal epithelium
EMAP:27989									├ └ urinary space of renal corpuscle (syn: Bowman's space)
EMAP:30035									└ └ glomerular mesangium of Bowman's capsule
EMAP:27995									└ juxtaglomerular arteriole
EMAP:28231									├ └ afferent arteriole
EMAP:28234									└ └ efferent arteriole
EMAP:10916									└ cortical renal tubule
EMAP:28282									├ renal proximal tubule
EMAP:28285									├ └ early proximal tubule
EMAP:31705									├ └ └ early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31613									├ └ └ early proximal tubule of maturing nephron
EMAP:28288									└ └ renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:31285									├ anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:28388									├ renal distal tubule
EMAP:28391									├ └ early distal tubule
EMAP:31640									├ └ └ early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31619									├ └ └ early distal tubule of maturing nephron
EMAP:28394									├ └ distal convoluted tubule (syn: second convoluted tubule)
EMAP:28397									├ └ distal straight tubule (syn: thick ascending limb)
EMAP:31380									├ └ └ premacula segment of distal straight tubule
EMAP:28400									├ └ └ macula densa
EMAP:28403									└ └ └ postmacula segment of distal straight tubule
EMAP:28015									├ renal connecting tubule
EMAP:31625									├ └ renal connecting tubule of capillary loop nephron
EMAP:31631									├ └ renal connecting tubule of maturing nephron
EMAP:31634									└ └ renal connecting tubule of mature nephron
EMAP:31822									├ cortical renal tubule of capillary loop nephron GROUP
EMAP:31285									├ anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:31640									├ early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31705									├ early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31625									└ renal connecting tubule of capillary loop nephron
EMAP:31816									├ cortical renal tubule of maturing nephron GROUP
EMAP:31619									├ early distal tubule of maturing nephron
EMAP:31613									├ early proximal tubule of maturing nephron
EMAP:31631									└ renal connecting tubule of maturing nephron
EMAP:31791									└ cortical renal tubule of mature nephron GROUP
EMAP:28394									├ distal convoluted tubule (syn: second convoluted tubule)
EMAP:28397									├ distal straight tubule (syn: thick ascending limb)
EMAP:31380									├ └ premacula segment of distal straight tubule
EMAP:28400									├ └ macula densa
EMAP:28403									└ └ postmacula segment of distal straight tubule
EMAP:31634									├ renal connecting tubule of mature nephron
EMAP:28288									└ renal proximal convoluted tubule (syn: first convoluted tubule)

EMAP:10909	G							early nephron GROUP
EMAP:10916								└ cortical renal tubule
EMAP:28282								└ renal proximal tubule
EMAP:28285								└ early proximal tubule
EMAP:31705								└ early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31613								└ early proximal tubule of maturing nephron
EMAP:28288								└ renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:31285								└ anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:28388								renal distal tubule
EMAP:28391								└ early distal tubule
EMAP:31640								└ early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31619								└ early distal tubule of maturing nephron
EMAP:28394								└ distal convoluted tubule (syn: second convoluted tubule)
EMAP:28397								└ distal straight tubule (syn: thick ascending limb)
EMAP:31380								└ premacula segment of distal straight tubule
EMAP:28400								└ macula densa
EMAP:28403								└ postmacula segment of distal straight tubule
EMAP:28015								renal connecting tubule
EMAP:31625								└ renal connecting tubule of capillary loop nephron
EMAP:31631								└ renal connecting tubule of maturing nephron
EMAP:31634								└ renal connecting tubule of mature nephron
EMAP:31822								└ cortical renal tubule of capillary loop nephron GROUP
EMAP:31285								└ anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:31640								└ early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31705								└ early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31625								└ renal connecting tubule of capillary loop nephron
EMAP:31816								└ cortical renal tubule of maturing nephron GROUP
EMAP:31619								└ early distal tubule of maturing nephron
EMAP:31613								└ early proximal tubule of maturing nephron
EMAP:31631								└ renal connecting tubule of maturing nephron
EMAP:31791								└ cortical renal tubule of mature nephron GROUP
EMAP:28394								└ distal convoluted tubule (syn: second convoluted tubule)
EMAP:28397								└ distal straight tubule (syn: thick ascending limb)
EMAP:31380								└ premacula segment of distal straight tubule
EMAP:28400								└ macula densa
EMAP:28403								└ postmacula segment of distal straight tubule
EMAP:31634								└ renal connecting tubule of mature nephron
EMAP:28288								└ renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:27833								renal vesicle (syn: epithelial vesicle; stage I nephron)
EMAP:31697								└ renal connecting segment of renal vesicle
EMAP:31728								└ distal renal vesicle
EMAP:31722								└ proximal renal vesicle
EMAP:27839								└ comma-shaped body
EMAP:27845								└ upper limb of comma-shaped body (syn: distal limb of comma-shaped body)
EMAP:27851								└ lower limb of comma-shaped body (syn: proximal limb of comma-shaped body)
EMAP:31714								└ renal connecting segment of comma-shaped body
EMAP:27857								└ s-shaped body (syn: stage II nephron)
EMAP:27869								└ renal connecting tubule of s-shaped body
EMAP:27875								└ distal segment of s-shaped body (syn: upper limb of s-shaped body)
EMAP:27881								└ medial segment of s-shaped body (syn: mid-portion of s-shaped body)
EMAP:27887								└ proximal segment of s-shaped body (syn: lower limb of s-shaped body)
EMAP:27899								└ visceral epithelium of s-shaped body
EMAP:27905								└ parietal epithelium of s-shaped body
EMAP:27911								└ capillary loop renal corpuscle (syn: renal corpuscle of the stage III nephron)
EMAP:27929								└ associated interstitium of renal corpuscle
EMAP:27923								└ parietal epithelium
EMAP:27941								└ presumptive endothelium of renal corpuscle
EMAP:27935								└ presumptive mesangium
EMAP:27917								└ visceral epithelium of capillary loop renal corpuscle (syn: podocyte layer)
EMAP:27947								└ maturing renal corpuscle (syn: renal corpuscle of Stage IV nephron)
EMAP:27953								└ maturing glomerular tuft (syn: maturing glomerulus)
EMAP:27959								└ glomerular capillary system of maturing glomerular tuft
EMAP:27965								└ glomerular mesangium
EMAP:27971								└ visceral epithelium of maturing renal corpuscle (syn: podocyte layer)
EMAP:30969								└ glomerular basement membrane
EMAP:27977								└ Bowman's capsule (syn: glomerular capsule)
EMAP:27983								└ parietal epithelium
EMAP:27989								└ urinary space of renal corpuscle (syn: Bowman's space)
EMAP:30035								└ glomerular mesangium of Bowman's capsule
EMAP:27995								└ juxtaglomerular arteriole
EMAP:28231								└ afferent arteriole
EMAP:28234								└ efferent arteriole

EMAP:28237					└ mature renal corpuscle (syn: Malpighian corpuscle)
EMAP:28240					└├ glomerular tuft (syn: glomerulus)
EMAP:28246					└├├ glomerular capillary system
EMAP:28249					└├├ glomerular mesangium
EMAP:28252					└├├ glomerular basement membrane
EMAP:28255					└├└ visceral epithelium of mature renal corpuscle (syn: podocyte layer)
EMAP:28258					└ Bowman's capsule (syn: glomerular capsule)
EMAP:28261					└├ parietal epithelium
EMAP:28264					└├└ urinary space of renal corpuscle (syn: Bowman's space)
EMAP:28267					└ afferent arteriole
EMAP:28270					└├ part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:28273					└├└ rest of afferent arteriole
EMAP:28276					└ efferent arteriole
EMAP:28279					└ extraglomerular mesangium
EMAP:28492	G				└ mature nephron
EMAP:10916					└├ cortical renal tubule
EMAP:28282					└├├ renal proximal tubule
EMAP:28285					└├├├ early proximal tubule
EMAP:31705					└├├├├ early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31613					└├├├├└ early proximal tubule of maturing nephron
EMAP:28288					└├├├└ renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:31285					└├ anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:28388					└├ renal distal tubule
EMAP:28391					└├├ early distal tubule
EMAP:31640					└├├├ early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31619					└├├├└ early distal tubule of maturing nephron
EMAP:28394					└├ distal convoluted tubule (syn: second convoluted tubule)
EMAP:28397					└├└ distal straight tubule (syn: thick ascending limb)
EMAP:31380					└├├ premacula segment of distal straight tubule
EMAP:28400					└├├├ macula densa
EMAP:28403					└├├├└ postmacula segment of distal straight tubule
EMAP:28015					└ renal connecting tubule
EMAP:31625					└├ renal connecting tubule of capillary loop nephron
EMAP:31631					└├ renal connecting tubule of maturing nephron
EMAP:31634					└├└ renal connecting tubule of mature nephron
EMAP:31822					└ cortical renal tubule of capillary loop nephron GROUP
EMAP:31285					└├ anlage of loop of Henle (syn: primitive loop of Henle)
EMAP:31640					└├├ early distal tubule of capillary loop nephron (syn: anlage of distal tubule)
EMAP:31705					└├├ early proximal tubule of capillary loop nephron (syn: anlage of proximal tubule)
EMAP:31625					└├├└ renal connecting tubule of capillary loop nephron
EMAP:31816					└ cortical renal tubule of maturing nephron GROUP
EMAP:31619					└├ early distal tubule of maturing nephron
EMAP:31613					└├ early proximal tubule of maturing nephron
EMAP:31631					└├└ renal connecting tubule of maturing nephron
EMAP:31791					└├ cortical renal tubule of mature nephron GROUP
EMAP:28394					└├├ distal convoluted tubule (syn: second convoluted tubule)
EMAP:28397					└├├ distal straight tubule (syn: thick ascending limb)
EMAP:31380					└├├├ premacula segment of distal straight tubule
EMAP:28400					└├├├├ macula densa
EMAP:28403					└├├├├└ postmacula segment of distal straight tubule
EMAP:31634					└├ renal connecting tubule of mature nephron
EMAP:28288					└├└ renal proximal convoluted tubule (syn: first convoluted tubule)
EMAP:31496					└ Loop of Henle group
EMAP:28323					└├ loop of Henle, outer medullary portion
EMAP:28326					└├├ thin descending limb
EMAP:28329					└├├ thin ascending limb (syn: ascending thin limb)
EMAP:28863					└├├ proximal straight tubule (syn: pars recta; segment 3 of proximal tubule)
EMAP:28332					└├├└ premacula segment of distal straight tubule (syn: thick ascending limb)
EMAP:28353					└├ loop of Henle, inner medullary portion
EMAP:28356					└├├ thin descending limb
EMAP:28359					└├├ bend (syn: U-turn)
EMAP:28362					└├├ thin ascending limb (syn: ascending thin limb)
EMAP:28237					└ mature renal corpuscle (syn: Malpighian corpuscle)
EMAP:28240					└├ glomerular tuft (syn: glomerulus)
EMAP:28246					└├├ glomerular capillary system
EMAP:28249					└├├ glomerular mesangium
EMAP:28252					└├├ glomerular basement membrane
EMAP:28255					└├└ visceral epithelium of mature renal corpuscle (syn: podocyte layer)
EMAP:28258					└ Bowman's capsule (syn: glomerular capsule)
EMAP:28261					└├ parietal epithelium
EMAP:28264					└├└ urinary space of renal corpuscle (syn: Bowman's space)
EMAP:28267					└ afferent arteriole

EMAP:28267						└ afferent arteriole
EMAP:28270						└ part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:28273						└ rest of afferent arteriole
EMAP:28219						└ interlobular vein
EMAP:28222						└ arcuate vein
EMAP:30856						└ ureteral vasculature
EMAP:28462 G						└ renal vasculature
EMAP:28246						└ glomerular capillary system
EMAP:27959						└ glomerular capillary system of maturing glomerular tuft
EMAP:27995						└ juxtaglomerular arteriole
EMAP:28231						└ afferent arteriole
EMAP:28234						└ efferent arteriole
EMAP:27941						└ presumptive endothelium of renal corpuscle
EMAP:28374						└ renal artery
EMAP:29979						└ endothelial layer of renal artery
EMAP:30000						└ endothelium of renal artery
EMAP:30008						└ smooth muscle layer of renal artery
EMAP:28377						└ renal vein
EMAP:29967						└ endothelial layer of renal vein
EMAP:30016						└ endothelium of renal vein
EMAP:30024						└ smooth muscle layer of renal vein
EMAP:30046						└ renal medullary capillary (syn: vasa recta)
EMAP:28213						└ interlobular artery
EMAP:28216						└ arcuate artery
EMAP:28267						└ afferent arteriole
EMAP:28270						└ part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:28273						└ rest of afferent arteriole
EMAP:28219						└ interlobular vein
EMAP:28222						└ arcuate vein
EMAP:31439 G						└ renal arterial system
EMAP:28374						└ renal artery
EMAP:29979						└ endothelial layer of renal artery
EMAP:30000						└ endothelium of renal artery
EMAP:30008						└ smooth muscle layer of renal artery
EMAP:28213						└ interlobular artery
EMAP:28216						└ arcuate artery
EMAP:28165						└ renal medullary arterial system
EMAP:31453 G						└ renal venous system
EMAP:28377						└ renal vein
EMAP:29967						└ endothelial layer of renal vein
EMAP:30016						└ endothelium of renal vein
EMAP:30024						└ smooth muscle layer of renal vein
EMAP:28219						└ interlobular vein
EMAP:28222						└ arcuate vein
EMAP:28267						└ afferent arteriole
EMAP:28270						└ part of afferent arteriole forming the juxtaglomerular complex (syn: renin-producing cell)
EMAP:28273						└ rest of afferent arteriole
EMAP:28276						└ efferent arteriole
EMAP:28170						└ renal medullary venous system
EMAP:31809 G						└ nerves of urethra GROUP
EMAP:31797						└ nerve of pelvic urethra of female
EMAP:31787						└ nerve of pelvic urethra of male
EMAP:31738						└ nerve of phallic urethra of female
EMAP:31803						└ nerve of phallic urethra of male
EMAP:9802						└ reproductive system
EMAP:9803						└ male reproductive system
EMAP:29319						└ epididymis
EMAP:31006 G						└ epithelium of epididymis
EMAP:30613						└ epithelium of caput of epididymis
EMAP:30601						└ epithelium of corpus epididymis
EMAP:30589						└ epithelium of cauda of epididymis
EMAP:31014 G						└ muscle layer of epididymis
EMAP:30617						└ muscle layer of caput of epididymis
EMAP:30605						└ muscle layer of corpus of epididymis
EMAP:30593						└ muscle layer of cauda of epididymis
EMAP:31010 G						└ adventitia of epididymis
EMAP:30621						└ adventitia of caput of epididymis
EMAP:30609						└ adventitia of corpus of epididymis
EMAP:30597						└ adventitia of cauda of epididymis
EMAP:31237 G						└ developing vasculature system of epididymis
EMAP:31206						└ developing vasculature of caput epididymis
EMAP:31201						└ developing vasculature of corpus epididymis

EMAP:31196				└─┬ developing vasculature of cauda epididymis
EMAP:30980	G			└─┬ male external genitalia
EMAP:10941				└─┬ penis (syn: genital tubercle of male)
EMAP:10942				└─┬ └─┬ glans penis
EMAP:30647				└─┬ └─┬ └─┬ surface epithelium of glans penis
EMAP:30643				└─┬ └─┬ └─┬ └─┬ mesenchyme of glans penis
EMAP:30663				└─┬ └─┬ crus penis
EMAP:30669				└─┬ └─┬ └─┬ surface epithelium of crus penis
EMAP:30665				└─┬ └─┬ └─┬ └─┬ mesenchyme of crus penis
EMAP:10943				└─┬ └─┬ prepuce of male
EMAP:30656				└─┬ └─┬ └─┬ prepuce surface epithelium of male
EMAP:30660				└─┬ └─┬ └─┬ preputial gland of male
EMAP:30651				└─┬ └─┬ └─┬ └─┬ prepuce mesenchyme of male
EMAP:29317				└─┬ └─┬ scrotal fold
EMAP:30626				└─┬ └─┬ └─┬ scrotal fold mesenchyme of male
EMAP:30629				└─┬ └─┬ └─┬ scrotal fold surface epithelium of male
EMAP:10917				└─┬ female reproductive system
EMAP:10923				└─┬ └─┬ ovary
EMAP:31060	G			└─┬ └─┬ └─┬ ovigerous cord
EMAP:31031				└─┬ └─┬ └─┬ └─┬ meiotic oocytes
EMAP:31037				└─┬ └─┬ └─┬ └─┬ pre-granulosa cell
EMAP:10936				└─┬ └─┬ vagina
EMAP:30993	G			└─┬ └─┬ └─┬ epithelium of vagina
EMAP:29059				└─┬ └─┬ └─┬ └─┬ epithelial layer of lower part of vagina
EMAP:29053				└─┬ └─┬ └─┬ └─┬ epithelial layer of upper part of vagina
EMAP:30999	G			└─┬ └─┬ └─┬ muscular layer of vagina
EMAP:29063				└─┬ └─┬ └─┬ └─┬ muscular layer of lower part of vagina
EMAP:29056				└─┬ └─┬ └─┬ └─┬ muscular layer of upper part of vagina
EMAP:31231	G			└─┬ └─┬ developing vasculature of vagina
EMAP:31226				└─┬ └─┬ └─┬ developing vasculature of lower part of vagina
EMAP:31221				└─┬ └─┬ └─┬ developing vasculature of upper part of vagina
EMAP:30987	G			└─┬ female external genitalia
EMAP:10919				└─┬ └─┬ genital tubercle of female
EMAP:12986				└─┬ └─┬ └─┬ glans clitoris
EMAP:30721				└─┬ └─┬ └─┬ └─┬ surface epithelium of glans clitoris
EMAP:30716				└─┬ └─┬ └─┬ └─┬ mesenchyme of glans clitoris
EMAP:12984				└─┬ └─┬ └─┬ crus of clitoris
EMAP:30731				└─┬ └─┬ └─┬ └─┬ surface epithelium of crus of clitoris
EMAP:30726				└─┬ └─┬ └─┬ └─┬ mesenchyme of crus of clitoris
EMAP:30700				└─┬ └─┬ prepuce of female
EMAP:30708				└─┬ └─┬ └─┬ prepuce surface epithelium of female
EMAP:30712				└─┬ └─┬ └─┬ preputial gland of female
EMAP:30704				└─┬ └─┬ └─┬ └─┬ prepuce mesenchyme of female
EMAP:10921				└─┬ └─┬ labial swelling (syn: labia)
EMAP:30440				└─┬ └─┬ └─┬ surface epithelium of labial swelling
EMAP:30435				└─┬ └─┬ └─┬ └─┬ mesenchymal layer of labial swelling
EMAP:31782	G			└─┬ developing vasculature of reproductive system GROUP
EMAP:28894				└─┬ └─┬ developing vasculature of ovary
EMAP:29120				└─┬ └─┬ └─┬ developing vasculature of the testis
EMAP:29128				└─┬ └─┬ └─┬ └─┬ coelomic vessel
EMAP:29136				└─┬ └─┬ └─┬ └─┬ interstitial vessel
EMAP:31465	G			└─┬ large blood vessels
EMAP:28216				└─┬ └─┬ arcuate artery
EMAP:28222				└─┬ └─┬ arcuate vein
EMAP:28213				└─┬ └─┬ interlobular artery
EMAP:28219				└─┬ └─┬ interlobular vein
EMAP:10108				└─┬ └─┬ renal artery
EMAP:13092				└─┬ └─┬ renal vein