

Federative International Programme for Anatomical Terminology

Systema urinarium - Urinary system



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NOMINA LATINA		ENGLISH EQUIVALENTS
H3.06.00.0.00001	Systema urinarium	Urinary system
H3.06.00.0.01001	Ren; Nephros⁸³	Kidney
H3.06.00.0.01002	Capsula adiposa	Perinephric fat; Perirenal fat capsule
H3.06.00.0.01003	Capsula fibrosa	Fibrous capsule
H3.06.00.0.01004	Lobus renalis	Kidney lobe
H3.06.00.0.01005	Cortex renalis	Renal cortex
H3.06.00.0.01006	Labyrinthus corticis	Renal cortical labyrinth
H3.06.00.0.01007	Cortex corticis	Renal cortex corticis
H3.06.00.0.01008	Radius medullaris	Renal medullary ray
H3.06.00.0.01009	Lobulus corticalis	Cortical lobule
H3.06.00.0.01010	Pars convoluta	Convoluted region
H3.06.00.0.01011	Pars radiata	Radial region
H3.06.00.0.01012	Columna renalis	Renal column
H3.06.00.0.01013	Medulla renalis	Renal medulla
H3.06.00.0.01014	Pyramis renalis	Renal pyramid
H3.06.00.0.01015	Medulla externa	Outer medulla
H3.06.00.0.01016	Stria externa	Outer stripe
H3.06.00.0.01017	Stria interna	Inner stripe
H3.06.00.0.01018	Medulla interna	Internal medulla
H3.06.00.0.01019	Basis pyramidis	Base of pyramid
H3.06.00.0.01020	Papilla renalis	Renal papilla
H3.06.00.0.01021	Crista renalis	Renal crest
H3.06.00.0.01022	Area cribrosa	Cribriform area
H3.06.00.0.01023	Foramen papillare	Opening of papillary duct
H3.06.00.0.01024	Cellula interstitialis	Interstitial cell
H3.06.00.1.00001	NEPHRONUM	NEPHRON
H3.06.00.1.00002	Nephronum longum	Long nephron; Long-looped nephron
H3.06.00.1.00003	Nephronum breve	Short nephron; Short-looped nephron
H3.06.00.1.00004	Nephronum corticale	Cortical nephron
H3.06.00.1.00005	Nephronum superficiale; Nephronum subcapsulare	Superficial nephron; Subcapsular nephron
H3.06.00.1.00006	Nephronum intermedium	Midcortical nephron
H3.06.00.1.00007	Nephronum juxtamedullare	Juxtamedullary nephron
H3.06.00.1.00008	Corpusculum renale	Renal corpuscle
H3.06.00.1.00009	Corpusculum superficiale	Subcapsular corpuscle
H3.06.00.1.00010	Corpusculum intermedium	Midcortical corpuscle
H3.06.00.1.00011	Corpusculum juxtamedullare	Juxtamedullary corpuscle
H3.06.00.1.00012	Polus vascularis	Vascular pole
H3.06.00.1.00013	Arteriola glomerularis afferens	Afferent glomerular arteriole
H3.06.00.1.00014	Arteriola glomerularis efferens	Efferent glomerular arteriole
H3.06.00.1.00015	Capsula glomerularis	Glomerular capsule

⁸³ H3.06.00.0.01001 *Ren; Nephros*: The subdivisions of the renal cortex and the renal medulla follow the recommendations given by the Renal Commission of the International Union of Physiological Sciences (IUPS) (A standard nomenclature for structures of the kidney. *Am J Physiol* 1988;254:F1-8; *Pflügers Arch* 1988;411:113-120; *Anat Embryol* 1988;178:N1-N6).

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	NOMINA LATINA	ENGLISH EQUIVALENTS
H3.06.00.1.00016	Peripolocyty	Peripolar cell
H3.06.00.1.00017	Stratum parietale; Paries externus	Capsular outer layer
H3.06.00.1.00018	Epitheliocyty parietalis	Parietal epithelial cell [PEC]
H3.06.00.1.00019	Stratum viscerale; Paries internus	Visceral layer
H3.06.00.1.00020	Podocyty (vide infra paginam 62)	Podocyte; Visceral cell of capsule (see page 62)
H3.06.00.1.00021	Spatium capsulare; Spatium urinarium	Capsular space; Urinary space
H3.06.00.1.00022	Glomerulus	Glomerulus
H3.06.00.1.00023	Mesangium	Mesangium
H3.06.00.1.00024	Matrix mesangialis	Mesangial matrix
H3.06.00.1.00025	Mesangiocyty	Mesangial cell
H3.06.00.1.00026	Rete capillare glomerulare	Glomerular capillary network
H3.06.00.1.00027	Vas capillare glomerulare	Glomerular capillary vessel
H3.06.00.1.00028	Endotheliocyty fenestratus	Fenestrated endothelium cell
H3.06.00.1.00029	Membrana basalis	Basement membrane
H3.06.00.1.00030	Lamina rara externa	Lamina rara externa
H3.06.00.1.00031	Lamina densa	Lamina densa
H3.06.00.1.00032	Lamina rara interna	Lamina rara interna
H3.06.00.1.00020	Podocyty	Podocyte; Visceral cell of capsule
H3.06.00.1.00033	Cyotrabecula	Primary process; Trabecula
H3.06.00.1.00034	Cytopodium	Secondary process; Foot process; Pedicle
H3.06.00.1.00035	Diaphragma rimae	Slit diaphragm
H3.06.00.1.00036	Polus urinarium; Polus tubularis	Urinary pole; Tubular pole
H3.06.00.1.00037	Tubulus renalis	Renal tubule
H3.06.00.1.00038	Tubulus proximalis	Proximal tubule
H3.06.00.1.00039	Pars convoluta; Pars contorta	Proximal convoluted tubule [PCT]
H3.06.00.1.00040	Pars recta	Proximal straight tubule [PST]
H3.06.00.1.00041	Segmentum S1	S1 segment; Proximal 1
H3.06.00.1.00042	Segmentum S2	S2 segment; Proximal 2
H3.06.00.1.00043	Segmentum S3	S3 segment; Proximal 3
H3.06.00.1.00044	Epithelium simplex cuboideum	Simple cuboidal epithelium
H3.06.00.1.00045	Epitheliocyty	Epithelial cell
H1.00.01.1.01012	Limbus microvillosus; Limbus penicillatus	Microvillous border; Brush border; Striated border
H3.06.00.1.00046	Limbus plicatus basolateralis	Folded basilateral border
H3.06.00.1.00047	Labyrinthus basalis	Basal labyrinth
H3.06.00.1.00048	Ansa nephroni	Nephron loop
H3.06.00.1.00049	Crus descendens	Descending limb
H3.06.00.1.00050	Crus ascendens	Ascending limb
H3.06.00.1.00051	Tubulus intermedius; Tubulus attenuatus	Intermediate tubule; Attenuated tubule
H3.06.00.1.00052	Crus descendens attenuatum	Descending thin limb [DTL]
H3.06.00.1.00053	Crus descendens ansae brevis	Descending thin limb of short loop
H3.06.00.1.00054	Cellula typi 1	Type 1 cell
H3.06.00.1.00055	Crus descendens ansae longae	Descending thin limb of long loop
H3.06.00.1.00056	Cellula typi 2	Type 2 cell
H3.06.00.1.00057	Cellula typi 3	Type 3 cell

NOMINA LATINA		ENGLISH EQUIVALENTS
H3.06.00.1.00058	Segmentum preansale	Prebend segment
H3.06.00.1.00059	Crus ascendens attenuatum	Ascending thin limb [ATL]
H3.06.00.1.00060	Cellula type 4	Type 4 cell
H3.06.00.1.00061	Tubulus distalis	Distal tubule
H3.06.00.1.00062	Pars recta	Straight part of distal tube; Thick ascending limb [TAL]
H3.06.00.1.00063	Pars recta medullaris	Medullary straight part
H3.06.00.1.00064	Pars recta corticalis	Cortical straight part
H3.06.00.1.00065	Cellula partis rectae tubuli distalis	Distal straight tubule cell
H3.06.00.1.00066	Macula densa	Macula densa
H3.06.00.1.00067	Epitheliocytus maculae densae	Epithelial cell of macula densa
H3.06.00.1.00068	Segmentum postmaculare	Postmacular segment
H3.06.00.1.00069	Pars convoluta; Pars contorta	Distal convoluted tubule [DCT]
H3.06.00.1.00070	Cellula partis convolutae tubuli distalis	Distal convoluted tubule cell
H3.06.00.1.00071	Tubulus reuniens	Connecting tubule [CNT]
H3.06.00.1.00072	Epitheliocytus principalis	Principal cell
H3.06.00.1.00073	Epitheliocytus intercalatus	Intercalated cell
H3.06.00.1.00074	Epitheliocytus intercalatus typus A	Type A intercalated cell
H3.06.00.1.00075	Epitheliocytus intercalatus typus B	Type B intercalated cell
H3.06.00.1.00076	Arcus tubuli reunientis	Connecting tubule arcade
H3.06.00.1.00077	Ductus colligens	Collecting duct [CD]
H3.06.00.1.00078	Epitheliocytus principalis	Principal cell
H3.06.00.1.00079	Epitheliocytus intercalatus	Intercalated cell
H3.06.00.1.00080	Epitheliocytus intercalatus typus A	Type A intercalated cell
H3.06.00.1.00081	Epitheliocytus intercalatus typus B	Type B intercalated cell
H3.06.00.1.00082	Ductus colligens corticalis	Cortical collecting duct
H3.06.00.1.00083	Ductus colligens medullaris	Medullary collecting duct
H3.06.00.1.00084	Ductus colligens medullaris externus	Outer medullary collecting duct
H3.06.00.1.00085	Ductus colligens medullaris internus	Inner medullary collecting duct
H3.06.00.1.00086	Ductus papillaris	Papillary duct
H3.06.00.2.00001	COMPLEXUS JUXTAGLOMERULARIS	JUXTAGLOMERULAR COMPLEX
H3.06.00.1.00066	Macula densa	Macula densa
H3.06.00.2.00002	Epitheliocytus maculae densae	Epithelial cell of macula densa
H3.06.00.2.00003	Tunica media arteriolarum glomerularium	Glomerular tunica media of arteriole
H3.06.00.2.00004	Juxtaglomerulocytus; Myocytus juxtaglomerularis ⁶⁹	Juxtaglomerular epithelioid cell; Granular cell
H3.06.00.2.00005	Insula perivascularis mesangii	Perivascular islet of mesangial cell; Extraglomerular mesangium; Polar cushion
H3.06.00.2.00006	Mesangiocytus extraglomerularis	Extraglomerular mesangial cell; Lacis cell

⁶⁹ H3.06.00.2.00004 *Juxtaglomerulocytus; Myocytus juxtaglomerularis*: Although sometimes called the *myoepithelial cell*, the *juxtaglomerulocyte* is a transformed smooth muscle cell (Kimura K, Nagai R, Sakai T, Aikawa M, Kuro-o M, Kobayashi N, Shirato I, Inagami T, Oshi M, Suzuki N, Oba S, Mise N, Tojo A, Hirata Y, Goto A, Yazaki Y, Omata M. Diversity and variability of smooth muscle phenotypes of renal arterioles as revealed by myosin isoform expression. *Kidney Int* 1995; 48: 372–382).

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	NOMINA LATINA	ENGLISH EQUIVALENTS
H3.06.00.3.00001	VASA SANGUINEA INTRARENALIA	INTRARENAL BLOOD VESSELS
H3.06.00.3.00002	A. interlobaris	Interlobar artery
H3.06.00.3.00003	A. arcuata	Arcuate artery
H3.06.00.3.00004	A. corticalis radiata; A. interlobularis	Cortical radiate artery; Interlobular artery
H3.06.00.1.00013	Arteriola glomerularis afferens	Afferent glomerular arteriole
H3.06.00.1.00026	Rete capillare glomerulare	Glomerular capillary plexus
H3.06.00.1.00014	Arteriola glomerularis efferens	Efferent glomerular arteriole
H3.06.00.3.00005	A. perforans radiata	Perforating radiate artery
H3.06.00.3.00006	Arteriola recta; Vasa recta	Vasa recta; Straight arteriole
H3.06.00.3.00007	R. capsularis	Capsular branch
H3.06.00.3.00008	V. interlobaris	Interlobar vein
H3.06.00.3.00009	Fasciculus vascularis	Vascular bundle
H3.06.00.3.00010	Fasciculus primarius	Primary bundle
H3.06.00.3.00011	Fasciculus secundarius	Secondary bundle
H3.06.00.3.00012	Fasciculus gigans	Giant bundle
H3.06.00.3.00013	Typus simplex	Simple type
H3.06.00.3.00014	Typus complex	Complex type
H3.06.00.3.00015	Plexus capillaris interfascicularis	Interbundle capillary plexus
H3.06.00.3.00016	V. arcuata	Arcuate vein
H3.06.00.3.00017	V. corticalis radiata; V. interlobularis	Interlobular vein
H3.06.00.3.00018	Venula recta	Venula recta; Straight venule
H3.06.00.3.00019	Venula stellata	Stellate vein
H3.06.00.4.00001	PELVIS RENALIS	RENAL PELVIS
H3.06.00.4.00002	Tunica mucosa ⁹⁰	Mucosa; Mucous membrane
H3.06.00.4.00003	Urothelium; Epithelium transitionale	Urothelium; Transitional epithelium
H3.06.00.4.00004	Lamina propria	Lamina propria
H3.06.00.4.00005	Tunica muscularis	Muscular layer; Muscular coat
H3.06.00.4.00006	Stratum internum longitudinale ⁹¹	Internal longitudinal layer
H3.06.00.4.00007	Myocytus stimulans	Urinary pacemaker cell
H3.06.00.4.00008	Stratum externum circulare	External circular layer
H3.06.00.4.00009	Tunica adventitia	Adventitia
H3.06.01.0.00001	Ureter	Ureter
H3.06.01.0.00002	Tunica mucosa	Mucosa; Mucous membrane
H3.06.01.0.00003	Urothelium; Epithelium transitionale	Urothelium; Transitional epithelium
H3.06.01.0.00004	Tunica muscularis	Muscular layer; Muscular coat
H3.06.01.0.00005	Tunica adventitia	Adventitia

⁹⁰ H3.06.00.4.00002 *Tunica mucosa pelvis renalis*: This layer is sometimes not recognized as a tunica mucosa, because it does not always include mucous glands.

⁹¹ H3.06.00.4.00006 *Stratum internum longitudinale*: The inner muscle layer of the human renal calyces differs from that of the ureter by its myocytes and by its intercellular spaces (Dixon JS, Gosling JA. The musculature of the human renal calyces, pelvis and upper ureter. *J Anat* 1982; 135: 129–137).

	NOMINA LATINA	ENGLISH EQUIVALENTS
H3.06.02.0.00001	Vesica urinaria	Urinary bladder
H3.06.02.0.00002	Tunica mucosa	Mucosa; Mucous membrane
H3.06.02.0.00003	Urothelium; Epithelium transitionale	Urothelium; Transitional epithelium
H3.06.02.0.00004	Urotheliocytus superficialis; Umbellocytus	Umbrella cell; Superficial urothelial cell
H3.06.02.0.00005	Crusta urothelialis	Urothelial plaque
H3.06.02.0.00006	Granulum uroplakini	Urothelial plaque particle
H2.00.02.0.02038	Vesicula adluminalis urothelialis	Discoid vesicle; Fusiform vesicle
H3.06.02.0.00007	Area intermedia	Intermediate region
H3.06.02.0.00008	Lamina propria	Lamina propria
H3.06.02.0.00009	Tunica muscularis	Muscular layer; Muscular coat
H3.06.02.0.00010	Tunica adventitia	Adventitia
H3.06.02.0.00011	Trigonum vesicae	Trigone of bladder
H3.06.02.0.00012	Glandula mucosa	Mucous gland
H3.06.03.0.00001	Urethra feminina	Female urethra
H3.06.03.0.00002	Tunica mucosa	Mucosa; Mucous membrane
H3.06.03.0.00003	Urothelium; Epithelium transitionale	Urothelium; Transitional epithelium
H3.06.03.0.00004	Epithelium stratificatum columnare	Stratified columnar epithelium
H3.06.03.0.00005	Epithelium stratificatum squamosum non cornificatum	Nonkeratinized stratified squamous epithelium
H3.06.03.0.00006	Glandula urethralis	Urethral gland
H3.06.03.0.00007	Lacunae urethrales	Urethral lacuna
H3.06.03.0.00008	Tunica spongiosa	Spongy layer
H3.06.03.0.00009	Glandula paraurethralis; Prostata feminina ⁹²	Paraurethral gland; Female prostate
H3.06.03.0.00010	Tunica muscularis	Muscular layer; Muscular coat
H3.06.03.0.00011	M. sphincter urethrae externus	External urethral sphincter; Rhabdosphincter
H3.06.03.0.00012	(Ductus paraurethralis)	(Paraurethral duct)
H3.06.04.0.00001	Urethra masculina {vide paginam 78}	Male urethra {see page 78}

⁹² H3.06.03.0.00009 *Prostata feminina*: This term is introduced because of the morphological and immunological significance of the structure (Zavljacic M, Ablin RJ. The female prostate and prostate-specific antigen. Immunohistochemical localization, implications of this prostate marker in women and reasons for using the term *prostate* in the human female. *Histol Histopathol* 2000; 15: 131–142).