Sanjay K Nigam

List of Publications by Year in Descending Order

167 papers	10,150 citations	61 h-index	96 g-index
169 ext. papers	11,095 ext. citations	7.2 avg, IF	6.47 L-index

#	Paper	IF	Citations
167	What If Not All Metabolites from the Uremic Toxin Generating Pathways Are Toxic? A Hypothesis.. *Toxins*, **2022**, 14,	4.9	3
166	ORGANIC ANION TRANSPORTERS (OATs) **2022**, 57-77		
165	Blockade of organic anion transport in humans after treatment with the drug probenecid leads to major metabolic alterations in plasma and urine.. *Clinical Pharmacology and Therapeutics*, **2022**,	6.1	3
164	Molecular Properties of Drugs Handled by Kidney OATs and Liver OATPs Revealed by Chemoinformatics and Machine Learning: Implications for Kidney and Liver Disease. *Pharmaceutics*, **2021**, 13,	6.4	2
163	Renal and non-renal response of ABC and SLC transporters in chronic kidney disease. *Expert Opinion on Drug Metabolism and Toxicology*, **2021**, 17, 515-542	5.5	7
162	Uremic Toxins in Organ Crosstalk. *Frontiers in Medicine*, **2021**, 8, 592602	4.9	8
161	Coordinate regulation of systemic and kidney tryptophan metabolism by the drug transporters OAT1 and OAT3. *Journal of Biological Chemistry*, **2021**, 296, 100575	5.4	12
160	A key role for the transporter OAT1 in systemic lipid metabolism. *Journal of Biological Chemistry*, **2021**, 296, 100603	5.4	8
159	SLC22 Transporters in the Fly Renal System Regulate Response to Oxidative Stress In Vivo.. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
158	SLC22 Orthologs Related to OATs, OCTs, and OCTNs Regulate Development and Responsiveness to Oxidative Stress. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	13
157	Systems Biology Analysis Reveals Eight SLC22 Transporter Subgroups, Including OATs, OCTs, and OCTNs. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	23
156	The Systems Biology of Drug Metabolizing Enzymes and Transporters: Relevance to Quantitative Systems Pharmacology. *Clinical Pharmacology and Therapeutics*, **2020**, 108, 40-53	6.1	15
155	Gut-derived uremic toxin handling in vivo requires OAT-mediated tubular secretion in chronic kidney disease. *JCI Insight*, **2020**, 5,	9.9	24
154	Unique metabolite preferences of the drug transporters OAT1 and OAT3 analyzed by machine learning. *Journal of Biological Chemistry*, **2020**, 295, 1829-1842	5.4	21
153	Dynamics of Organic Anion Transporter-Mediated Tubular Secretion during Postnatal Human Kidney Development and Maturation. *Clinical Journal of the American Society of Nephrology: CJASN*, **2019**, 14, 540-548	6.9	11
152	Uraemic syndrome of chronic kidney disease: altered remote sensing and signalling. *Nature Reviews Nephrology*, **2019**, 15, 301-316	14.9	62
151	A Network of SLC and ABC Transporter and DME Genes Involved in Remote Sensing and Signaling in the Gut-Liver-Kidney Axis. *Scientific Reports*, **2019**, 9, 11879	4.9	30

150	Gene-targeted deletion in mice of the Ets-1 transcription factor, a candidate gene in the Jacobsen syndrome kidney "critical region," causes abnormal kidney development. *American Journal of Medical Genetics, Part A*, **2019**, 179, 71-77	2.5	1
149	The SLC22 Transporter Family: A Paradigm for the Impact of Drug Transporters on Metabolic Pathways, Signaling, and Disease. *Annual Review of Pharmacology and Toxicology*, **2018**, 58, 663-687	17.9	102
148	Organic anion transporter OAT3 enhances the glucosuric effect of the SGLT2 inhibitor empagliflozin. *American Journal of Physiology - Renal Physiology*, **2018**, 315, F386-F394	4.3	13
147	Developmental regulation of kidney and liver solute carrier and ATP-binding cassette drug transporters and drug metabolizing enzymes: the role of remote organ communication. *Expert Opinion on Drug Metabolism and Toxicology*, **2018**, 14, 561-570	5.5	18
146	The systems biology of uric acid transporters: the role of remote sensing and signaling. *Current Opinion in Nephrology and Hypertension*, **2018**, 27, 305-313	3.5	42
145	The drug transporter OAT3 (SLC22A8) and endogenous metabolite communication via the gut-liver-kidney axis. *Journal of Biological Chemistry*, **2017**, 292, 15789-15803	5.4	61
144	Key Role for the Organic Anion Transporters, OAT1 and OAT3, in the in vivo Handling of Uremic Toxins and Solutes. *Scientific Reports*, **2017**, 7, 4939	4.9	100
143	Organic Anion Transport in the Developing Kidney **2017**, 1040-1045.e2		
142	Regulation of Ureteric Bud Outgrowth and the Consequences of Disrupted Development **2016**, 209-227		1
141	An Organic Anion Transporter 1 (OAT1)-centered Metabolic Network. *Journal of Biological Chemistry*, **2016**, 291, 19474-86	5.4	27
140	Kidney versus Liver Specification of SLC and ABC Drug Transporters, Tight Junction Molecules, and Biomarkers. *Drug Metabolism and Disposition*, **2016**, 44, 1050-60	4	18
139	Analysis of ABCG2 and other urate transporters in uric acid homeostasis in chronic kidney disease: potential role of remote sensing and signaling. *CKJ: Clinical Kidney Journal*, **2016**, 9, 444-53	4.5	62
138	Multispecific Organic Cation Transporter 1 (OCT1) from Bos taurus Has High Affinity and Slow Binding Kinetics towards Prostaglandin E2. *PLoS ONE*, **2016**, 11, e0152969	3.7	2
137	Molecular Properties of Drugs Interacting with SLC22 Transporters OAT1, OAT3, OCT1, and OCT2: A Machine-Learning Approach. *Journal of Pharmacology and Experimental Therapeutics*, **2016**, 359, 215-29	4.7	47
136	Transcriptome-based reconstructions from the murine knockout suggest involvement of the urate transporter, URAT1 (slc22a12), in novel metabolic pathways. *Biochemistry and Biophysics Reports*, **2015**, 3, 51-61	2.2	10
135	Handling of Drugs, Metabolites, and Uremic Toxins by Kidney Proximal Tubule Drug Transporters. *Clinical Journal of the American Society of Nephrology: CJASN*, **2015**, 10, 2039-49	6.9	164
134	Shared Ligands Between Organic Anion Transporters (OAT1 and OAT6) and Odorant Receptors. *Drug Metabolism and Disposition*, **2015**, 43, 1855-63	4	17
133	What do drug transporters really do?. *Nature Reviews Drug Discovery*, **2015**, 14, 29-44	64.1	303

132	Evolutionary Analysis and Classification of OATs, OCTs, OCTNs, and Other SLC22 Transporters: Structure-Function Implications and Analysis of Sequence Motifs. *PLoS ONE*, **2015**, 10, e0140569	3.7	53
131	The organic anion transporter (OAT) family: a systems biology perspective. *Physiological Reviews*, **2015**, 95, 83-123	47.9	239
130	Generation of an expandable intermediate mesoderm restricted progenitor cell line from human pluripotent stem cells. *ELife*, **2015**, 4,	8.9	20
129	Growth factor-heparan sulfate "switches" regulating stages of branching morphogenesis. *Pediatric Nephrology*, **2014**, 29, 727-35	3.2	18
128	Organic Anion Transporters **2014**, 25-41		2
127	Relevance of ureteric bud development and branching to tissue engineering, regeneration and repair in acute and chronic kidney disease. *Current Opinion in Organ Transplantation*, **2014**, 19, 153-61	2.5	3
126	Renal Regeneration **2014**, 253-261		
125	Cellular and developmental strategies aimed at kidney tissue engineering. *Nephron Experimental Nephrology*, **2014**, 126, 101		5
124	Organic anion transport pathways in antiviral handling in choroid plexus in Oat1 (Slc22a6) and Oat3 (Slc22a8) deficient tissue. *Neuroscience Letters*, **2013**, 534, 133-8	3.3	36
123	Molecular and Cellular Mechanisms of Kidney Development **2013**, 859-890		2
122	Metabolomics reveals signature of mitochondrial dysfunction in diabetic kidney disease. *Journal of the American Society of Nephrology: JASN*, **2013**, 24, 1901-12	12.7	352
121	GDNF-independent ureteric budding: role of PI3K-independent activation of AKT and FOSB/JUN/AP-1 signaling. *Biology Open*, **2013**, 2, 952-9	2.2	7
120	Concise review: can the intrinsic power of branching morphogenesis be used for engineering epithelial tissues and organs?. *Stem Cells Translational Medicine*, **2013**, 2, 993-1000	6.9	16
119	Hepatocyte nuclear factors 4 and 1 regulate kidney developmental expression of drug-metabolizing enzymes and drug transporters. *Molecular Pharmacology*, **2013**, 84, 808-23	4.3	76
118	Multispecific drug transporter Slc22a8 (Oat3) regulates multiple metabolic and signaling pathways. *Drug Metabolism and Disposition*, **2013**, 41, 1825-34	4	48
117	A protein kinase A and Wnt-dependent network regulating an intermediate stage in epithelial tubulogenesis during kidney development. *Developmental Biology*, **2012**, 364, 11-21	3.1	24
116	In vitro culture of embryonic kidney rudiments and isolated ureteric buds. *Methods in Molecular Biology*, **2012**, 886, 13-21	1.4	10
115	The storytelling brain. Commentary on "On social attribution: implications of recent cognitive neuroscience research for race, law, and politics". *Science and Engineering Ethics*, **2012**, 18, 567-71	3.1	7

114	Organic anion and cation SLC22 "drug" transporter (Oat1, Oat3, and Oct1) regulation during development and maturation of the kidney proximal tubule. *PLoS ONE*, **2012**, 7, e40796	3.7	31
113	A role for the organic anion transporter OAT3 in renal creatinine secretion in mice. *American Journal of Physiology - Renal Physiology*, **2012**, 302, F1293-9	4.3	85
112	N-sulfation of heparan sulfate regulates early branching events in the developing mammary gland. *Journal of Biological Chemistry*, **2012**, 287, 42064-70	5.4	12
111	Untargeted metabolomics identifies enterobiome metabolites and putative uremic toxins as substrates of organic anion transporter 1 (Oat1). *Journal of Proteome Research*, **2011**, 10, 2842-51	5.6	130
110	Branching morphogenesis: from individual molecules to a systems biology approach: commentary on "Sema4C-Plexin B2 signalling modulates ureteric branching in developing kidney" by Perl et al. *Differentiation*, **2011**, 81, 79-80	3.5	1
109	Stage-dependent regulation of mammary ductal branching by heparan sulfate and HGF-cMet signaling. *Developmental Biology*, **2011**, 355, 394-403	3.1	42
108	Growth factor-dependent branching of the ureteric bud is modulated by selective 6-O sulfation of heparan sulfate. *Developmental Biology*, **2011**, 356, 19-27	3.1	36
107	Conformational changes of the multispecific transporter organic anion transporter 1 (OAT1/SLC22A6) suggests a molecular mechanism for initial stages of drug and metabolite transport. *Cell Biochemistry and Biophysics*, **2011**, 61, 251-9	3.2	16
106	Elucidation of common pharmacophores from analysis of targeted metabolites transported by the multispecific drug transporter-Organic anion transporter1 (Oat1). *Bioorganic and Medicinal Chemistry*, **2011**, 19, 3320-40	3.4	13
105	Remote communication through solute carriers and ATP binding cassette drug transporter pathways: an update on the remote sensing and signaling hypothesis. *Molecular Pharmacology*, **2011**, 79, 795-805	4.3	90
104	Functional maturation of drug transporters in the developing, neonatal, and postnatal kidney. *Molecular Pharmacology*, **2011**, 80, 147-54	4.3	51
103	Deletion of multispecific organic anion transporter Oat1/Slc22a6 protects against mercury-induced kidney injury. *Journal of Biological Chemistry*, **2011**, 286, 26391-5	5.4	68
102	Linkage of organic anion transporter-1 to metabolic pathways through integrated "omics"-driven network and functional analysis. *Journal of Biological Chemistry*, **2011**, 286, 31522-31	5.4	51
101	Analysis of three-dimensional systems for developing and mature kidneys clarifies the role of OAT1 and OAT3 in antiviral handling. *Journal of Biological Chemistry*, **2011**, 286, 243-51	5.4	51
100	Loss of the heparan sulfate sulfotransferase, Ndst1, in mammary epithelial cells selectively blocks lobuloalveolar development in mice. *PLoS ONE*, **2010**, 5, e10691	3.7	32
99	Constructing kidney-like tissues from cells based on programs for organ development: toward a method of in vitro tissue engineering of the kidney. *Tissue Engineering - Part A*, **2010**, 16, 2441-55	3.9	58
98	Hs2st mediated kidney mesenchyme induction regulates early ureteric bud branching. *Developmental Biology*, **2010**, 339, 354-65	3.1	27
97	Protein kinase A regulates GDNF/RET-dependent but not GDNF/Ret-independent ureteric bud outgrowth from the Wolffian duct. *Developmental Biology*, **2010**, 347, 337-47	3.1	13

96	How does the ureteric bud branch?. *Journal of the American Society of Nephrology: JASN*, **2009**, 20, 1465-9	12.7	43
95	Analysis of a large cluster of SLC22 transporter genes, including novel USTs, reveals species-specific amplification of subsets of family members. *Physiological Genomics*, **2009**, 38, 116-24	3.6	22
94	The instructive role of metanephric mesenchyme in ureteric bud patterning, sculpting, and maturation and its potential ability to buffer ureteric bud branching defects. *American Journal of Physiology - Renal Physiology*, **2009**, 297, F1330-41	4.3	21
93	Beta1-integrin is required for kidney collecting duct morphogenesis and maintenance of renal function. *American Journal of Physiology - Renal Physiology*, **2009**, 297, F210-7	4.3	48
92	Toward a systems level understanding of organic anion and other multispecific drug transporters: a remote sensing and signaling hypothesis. *Molecular Pharmacology*, **2009**, 76, 481-90	4.3	111
91	Neuropeptide Y functions as a facilitator of GDNF-induced budding of the Wolffian duct. *Development (Cambridge)*, **2009**, 136, 4213-24	6.6	13
90	Interaction of organic cations with organic anion transporters. *Journal of Biological Chemistry*, **2009**, 284, 31422-30	5.4	52
89	Impaired Wnt-beta-catenin signaling disrupts adult renal homeostasis and leads to cystic kidney ciliopathy. *Nature Medicine*, **2009**, 15, 1046-54	50.5	137
88	MAPAS: a tool for predicting membrane-contacting protein surfaces. *Nature Methods*, **2008**, 5, 119	21.6	16
87	Multiple organic anion transporters contribute to net renal excretion of uric acid. *Physiological Genomics*, **2008**, 33, 180-92	3.6	178
86	Modeling of glycerol-3-phosphate transporter suggests a potential tilt mechanism involved in its function. *Journal of Bioinformatics and Computational Biology*, **2008**, 6, 885-904	1	12
85	Multi-level analysis of organic anion transporters 1, 3, and 6 reveals major differences in structural determinants of antiviral discrimination. *Journal of Biological Chemistry*, **2008**, 283, 8654-63	5.4	79
84	Organogenesis forum lecture: In vitro kidney development, tissue engineering and systems biology. *Organogenesis*, **2008**, 4, 137-43	1.7	21
83	Overlapping in vitro and in vivo specificities of the organic anion transporters OAT1 and OAT3 for loop and thiazide diuretics. *American Journal of Physiology - Renal Physiology*, **2008**, 294, F867-73	4.3	101
82	Organic anion transporter 3 contributes to the regulation of blood pressure. *Journal of the American Society of Nephrology: JASN*, **2008**, 19, 1732-40	12.7	65
81	Analysis of metagene portraits reveals distinct transitions during kidney organogenesis. *Science Signaling*, **2008**, 1, ra16	8.8	27
80	Molecular and Cellular Mechanisms of Kidney Development **2008**, 671-689		
79	The effect of hyaluronic acid size and concentration on branching morphogenesis and tubule differentiation in developing kidney culture systems: potential applications to engineering of renal tissues. *Biomaterials*, **2007**, 28, 4806-17	15.6	53

78	Structural variation governs substrate specificity for organic anion transporter (OAT) homologs. Potential remote sensing by OAT family members. *Journal of Biological Chemistry*, **2007**, 282, 23841-53	5.4	74
77	Drug and toxicant handling by the OAT organic anion transporters in the kidney and other tissues. *Nature Clinical Practice Nephrology*, **2007**, 3, 443-8		62
76	Glial cell-derived neurotrophic factor independent ureteric bud outgrowth from the Wolffian duct. *Journal of the American Society of Nephrology: JASN*, **2007**, 18, 3147-55	12.7	50
75	The developmental nephrome: systems biology in the developing kidney. *Current Opinion in Nephrology and Hypertension*, **2007**, 16, 3-9	3.5	26
74	Decreased renal organic anion secretion and plasma accumulation of endogenous organic anions in OAT1 knock-out mice. *Journal of Biological Chemistry*, **2006**, 281, 5072-83	5.4	177
73	Adult kidney tubular cell population showing phenotypic plasticity, tubulogenic capacity, and integration capability into developing kidney. *Journal of the American Society of Nephrology: JASN*, **2006**, 17, 188-98	12.7	123
72	Olfactory mucosa-expressed organic anion transporter, Oat6, manifests high affinity interactions with odorant organic anions. *Biochemical and Biophysical Research Communications*, **2006**, 351, 872-6	3.4	56
71	Activin A is an endogenous inhibitor of ureteric bud outgrowth from the Wolffian duct. *Developmental Biology*, **2006**, 295, 473-85	3.1	42
70	Development and differentiation of the ureteric bud into the ureter in the absence of a kidney collecting system. *Developmental Biology*, **2006**, 298, 571-84	3.1	28
69	Rho kinase acts at separate steps in ureteric bud and metanephric mesenchyme morphogenesis during kidney development. *Differentiation*, **2006**, 74, 638-47	3.5	42
68	Analyses of 5Q regulatory region polymorphisms in human SLC22A6 (OAT1) and SLC22A8 (OAT3). *Journal of Human Genetics*, **2006**, 51, 575-580	4.3	33
67	Analyses of coding region polymorphisms in apical and basolateral human organic anion transporter (OAT) genes [OAT1 (NKT), OAT2, OAT3, OAT4, URAT (RST)]. *Kidney International*, **2005**, 68, 1491-9	9.9	72
66	Heregulin induces glial cell line-derived neurotrophic growth factor-independent, non-branching growth and differentiation of ureteric bud epithelia. *Journal of Biological Chemistry*, **2005**, 280, 42181-7	5.4	22
65	Implications of gene networks for understanding resilience and vulnerability in the kidney branching program. *Physiology*, **2004**, 19, 339-47	9.8	27
64	Novel slc22 transporter homologs in fly, worm, and human clarify the phylogeny of organic anion and cation transporters. *Physiological Genomics*, **2004**, 18, 12-24	3.6	74
63	The molecular pharmacology of organic anion transporters: from DNA to FDA?. *Molecular Pharmacology*, **2004**, 65, 479-87	4.3	66
62	Branching morphogenesis and kidney disease. *Development (Cambridge)*, **2004**, 131, 1449-62	6.6	126
61	Developmental approaches to kidney tissue engineering. *American Journal of Physiology - Renal Physiology*, **2004**, 286, F1-7	4.3	49

60	Organic anion transport in choroid plexus from wild-type and organic anion transporter 3 (Slc22a8)-null mice. *American Journal of Physiology - Renal Physiology*, **2004**, 286, F972-8	4.3	54
59	Complex dynamics of chaperone-protein interactions under cellular stress. *Cell Biochemistry and Biophysics*, **2004**, 40, 263-76	3.2	10
58	Tunicamycin preserves intercellular junctions, cytoarchitecture, and cell-substratum interactions in ATP-depleted epithelial cells. *Biochemical and Biophysical Research Communications*, **2004**, 322, 223-31	3.4	11
57	Identification of a novel murine organic anion transporter family member, OAT6, expressed in olfactory mucosa. *Biochemical and Biophysical Research Communications*, **2004**, 323, 429-36	3.4	94
56	TGF-beta superfamily members modulate growth, branching, shaping, and patterning of the ureteric bud. *Developmental Biology*, **2004**, 266, 285-98	3.1	115
55	Regulation of ureteric bud branching morphogenesis by sulfated proteoglycans in the developing kidney. *Developmental Biology*, **2004**, 272, 310-27	3.1	66
54	Spatiotemporal regulation of morphogenetic molecules during in vitro branching of the isolated ureteric bud: toward a model of branching through budding in the developing kidney. *Developmental Biology*, **2004**, 275, 44-67	3.1	102
53	Novel aspects of renal organic anion transporters. *Current Opinion in Nephrology and Hypertension*, **2003**, 12, 551-8	3.5	34
52	Changes in gene expression patterns in the ureteric bud and metanephric mesenchyme in models of kidney development. *Kidney International*, **2003**, 64, 1997-2008	9.9	75
51	From the ureteric bud to the penome. *Kidney International*, **2003**, 64, 2320-2	9.9	11
50	Eya protein phosphatase activity regulates Six1-Dach-Eya transcriptional effects in mammalian organogenesis. *Nature*, **2003**, 426, 247-54	50.4	505
49	Organic anion and cation transporters occur in pairs of similar and similarly expressed genes. *Biochemical and Biophysical Research Communications*, **2003**, 300, 333-42	3.4	96
48	Debt91, a putative zinc finger protein differentially expressed during epithelial morphogenesis. *Biochemical and Biophysical Research Communications*, **2003**, 306, 623-8	3.4	6
47	Biochemical processing of E-cadherin under cellular stress. *Biochemical and Biophysical Research Communications*, **2003**, 307, 215-23	3.4	25
46	Toward an etiological classification of developmental disorders of the kidney and upper urinary tract. *Kidney International*, **2002**, 61, 10-9	9.9	61
45	A strategy for in vitro propagation of rat nephrons. *Kidney International*, **2002**, 62, 1958-65	9.9	45
44	Impaired organic anion transport in kidney and choroid plexus of organic anion transporter 3 (Oat3 (Slc22a8)) knockout mice. *Journal of Biological Chemistry*, **2002**, 277, 26934-43	5.4	233
43	Novel human cDNAs homologous to Drosophila Orct and mammalian carnitine transporters. *Biochemical and Biophysical Research Communications*, **2002**, 297, 1159-66	3.4	55

42	Folding and bioassembly of secretory proteins in health and disease. *Kidney International*, **2001**, 60, 397	9.9	
41	Reassembly of the tight junction after oxidative stress depends on tyrosine kinase activity. *Journal of Biological Chemistry*, **2001**, 276, 22048-55	5.4	98
40	Expanding role of G proteins in tight junction regulation: Galpha(s) stimulates TJ assembly. *Biochemical and Biophysical Research Communications*, **2001**, 285, 250-6	3.4	22
39	Involvement of laminin binding integrins and laminin-5 in branching morphogenesis of the ureteric bud during kidney development. *Developmental Biology*, **2001**, 238, 289-302	3.1	73
38	Multiple fibroblast growth factors support growth of the ureteric bud but have different effects on branching morphogenesis. *Mechanisms of Development*, **2001**, 109, 123-35	1.7	123
37	The organic anion transporter family: from physiology to ontogeny and the clinic. *American Journal of Physiology - Renal Physiology*, **2001**, 281, F197-205	4.3	108
36	EEG1, a putative transporter expressed during epithelial organogenesis: comparison with embryonic transporter expression during nephrogenesis. *American Journal of Physiology - Renal Physiology*, **2001**, 281, F1148-56	4.3	14
35	Identification of pleiotrophin as a mesenchymal factor involved in ureteric bud branching morphogenesis. *Development (Cambridge)*, **2001**, 128, 3283-3293	6.6	73
34	Developmentally regulated expression of organic ion transporters NKT (OAT1), OCT1, NLT (OAT2), and Roct. *American Journal of Physiology - Renal Physiology*, **2000**, 278, F635-43	4.3	94
33	Selective degradation of E-cadherin and dissolution of E-cadherin-catenin complexes in epithelial ischemia. *American Journal of Physiology - Renal Physiology*, **2000**, 278, F847-52	4.3	77
32	Matrix metalloproteinases and their inhibitors regulate in vitro ureteric bud branching morphogenesis. *American Journal of Physiology - Renal Physiology*, **2000**, 279, F891-900	4.3	43
31	Role of hyaluronan and CD44 in in vitro branching morphogenesis of ureteric bud cells. *Developmental Biology*, **2000**, 224, 312-25	3.1	49
30	Genesis and reversal of the ischemic phenotype in epithelial cells. *Journal of Clinical Investigation*, **2000**, 106, 621-6	15.9	122
29	Pretreatment with inducers of ER molecular chaperones protects epithelial cells subjected to ATP depletion. *American Journal of Physiology - Renal Physiology*, **1999**, 277, F211-8	4.3	17
28	Role of tyrosine phosphorylation in the reassembly of occludin and other tight junction proteins. *American Journal of Physiology - Renal Physiology*, **1999**, 276, F737-50	4.3	99
27	A role for intracellular calcium in tight junction reassembly after ATP depletion-repletion. *American Journal of Physiology - Renal Physiology*, **1999**, 277, F524-32	4.3	34
26	Evolution of gene expression patterns in a model of branching morphogenesis. *American Journal of Physiology - Renal Physiology*, **1999**, 277, F650-63	4.3	18
25	Cell-cell dissociation upon epithelial cell scattering requires a step mediated by the proteasome. *Journal of Biological Chemistry*, **1999**, 274, 24579-84	5.4	49

24	Less degradation, more shock, please. *Gastroenterology*, **1999**, 116, 994-5	13.3	3
23	In vitro branching tubulogenesis: implications for developmental and cystic disorders, nephron number, renal repair, and nephron engineering. *Kidney International*, **1998**, 54, 14-26	9.9	58
22	Involvement of Galphai2 in the maintenance and biogenesis of epithelial cell tight junctions. *Journal of Biological Chemistry*, **1998**, 273, 21629-33	5.4	65
21	Folding of secretory and membrane proteins. *New England Journal of Medicine*, **1998**, 339, 1688-95	59.2	120
20	Molecular structure and assembly of the tight junction. *American Journal of Physiology - Renal Physiology*, **1998**, 274, F1-9	4.3	155
19	Proteasome inhibition leads to a heat-shock response, induction of endoplasmic reticulum chaperones, and thermotolerance. *Journal of Biological Chemistry*, **1997**, 272, 9086-92	5.4	361
18	Molecular cloning and characterization of NKT, a gene product related to the organic cation transporter family that is almost exclusively expressed in the kidney. *Journal of Biological Chemistry* , **1997**, 272, 6471-8	5.4	203
17	Tight junction proteins form large complexes and associate with the cytoskeleton in an ATP depletion model for reversible junction assembly. *Journal of Biological Chemistry*, **1997**, 272, 16133-9	5.4	158
16	Multiple molecular chaperones complex with misfolded large oligomeric glycoproteins in the endoplasmic reticulum. *Journal of Biological Chemistry*, **1997**, 272, 3057-63	5.4	114
15	Involvement of a heterotrimeric G protein alpha subunit in tight junction biogenesis. *Journal of Biological Chemistry*, **1996**, 271, 25750-3	5.4	112
14	Dependence of epithelial intercellular junction biogenesis on thapsigargin-sensitive intracellular calcium stores. *Journal of Biological Chemistry*, **1996**, 271, 13636-41	5.4	88
13	Selective amplification of protein-coding regions of large sets of genes using statistically designed primer sets. *Nature Biotechnology*, **1996**, 14, 857-61	44.5	35
12	Abundance and competition in PCR. *Nature Biotechnology*, **1996**, 14, 1202-1202	44.5	
11	Molecular characteristics of Na(+)-coupled glucose transporters in adult and embryonic rat kidney. *Journal of Biological Chemistry*, **1995**, 270, 29365-71	5.4	149
10	Determinants of branching tubulogenesis. *Current Opinion in Nephrology and Hypertension*, **1995**, 4, 209-14	3.5	17
9	Critical role for intracellular calcium in tight junction biogenesis. *Journal of Cellular Physiology*, **1994** , 159, 423-33	7	103
8	Involvement of hepatocyte growth factor in kidney development. *Developmental Biology*, **1994**, 163, 525-9	3.1	184
7	Modulation of HGF-induced tubulogenesis and branching by multiple phosphorylation mechanisms. *Developmental Biology*, **1993**, 159, 535-48	3.1	86

6	HGF-induced tubulogenesis and branching of epithelial cells is modulated by extracellular matrix and TGF-beta. *Developmental Biology*, **1993**, 160, 293-302	3.1	190
5	Toward an understanding of epithelial morphogenesis in health and disease. *Current Opinion in Nephrology and Hypertension*, **1992**, 1, 187-91	3.5	6
4	Intracellular calcium: molecules and pools. *Current Opinion in Cell Biology*, **1992**, 4, 220-6	9	50
3	The role of phosphorylation in development of tight junctions in cultured renal epithelial (MDCK) cells. *Biochemical and Biophysical Research Communications*, **1991**, 181, 548-53	3.4	73
2	Organic Anion Transporters51-73		
1	A Biological Basis for Pharmacokinetics: The Remote Sensing and Signaling Theory. *Clinical Pharmacology and Therapeutics*,	6.1	3