

# Sanjay K Nigam

## List of Publications by Citations

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167  
papers

10,150  
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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	Eya protein phosphatase activity regulates Six1-Dach-Eya transcriptional effects in mammalian organogenesis. <i>Nature</i> , <b>2003</b> , 426, 247-54	50.4	505
166	Proteasome inhibition leads to a heat-shock response, induction of endoplasmic reticulum chaperones, and thermotolerance. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 9086-92	5.4	361
165	Metabolomics reveals signature of mitochondrial dysfunction in diabetic kidney disease. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2013</b> , 24, 1901-12	12.7	352
164	What do drug transporters really do?. <i>Nature Reviews Drug Discovery</i> , <b>2015</b> , 14, 29-44	64.1	303
163	The organic anion transporter (OAT) family: a systems biology perspective. <i>Physiological Reviews</i> , <b>2015</b> , 95, 83-123	47.9	239
162	Impaired organic anion transport in kidney and choroid plexus of organic anion transporter 3 (Oat3 (Slc22a8)) knockout mice. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 26934-43	5.4	233
161	Molecular cloning and characterization of NKT, a gene product related to the organic cation transporter family that is almost exclusively expressed in the kidney. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 6471-8	5.4	203
160	HGF-induced tubulogenesis and branching of epithelial cells is modulated by extracellular matrix and TGF-beta. <i>Developmental Biology</i> , <b>1993</b> , 160, 293-302	3.1	190
159	Involvement of hepatocyte growth factor in kidney development. <i>Developmental Biology</i> , <b>1994</b> , 163, 525-9	3.1	184
158	Multiple organic anion transporters contribute to net renal excretion of uric acid. <i>Physiological Genomics</i> , <b>2008</b> , 33, 180-92	3.6	178
157	Decreased renal organic anion secretion and plasma accumulation of endogenous organic anions in OAT1 knock-out mice. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 5072-83	5.4	177
156	Handling of Drugs, Metabolites, and Uremic Toxins by Kidney Proximal Tubule Drug Transporters. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , <b>2015</b> , 10, 2039-49	6.9	164
155	Tight junction proteins form large complexes and associate with the cytoskeleton in an ATP depletion model for reversible junction assembly. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 16133-9	5.4	158
154	Molecular structure and assembly of the tight junction. <i>American Journal of Physiology - Renal Physiology</i> , <b>1998</b> , 274, F1-9	4.3	155
153	Molecular characteristics of Na(+)-coupled glucose transporters in adult and embryonic rat kidney. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 29365-71	5.4	149
152	Impaired Wnt-beta-catenin signaling disrupts adult renal homeostasis and leads to cystic kidney ciliopathy. <i>Nature Medicine</i> , <b>2009</b> , 15, 1046-54	50.5	137
151	Untargeted metabolomics identifies enterobiome metabolites and putative uremic toxins as substrates of organic anion transporter 1 (Oat1). <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 2842-51	5.6	130

150	Branching morphogenesis and kidney disease. <i>Development (Cambridge)</i> , <b>2004</b> , 131, 1449-62	6.6	126
149	Adult kidney tubular cell population showing phenotypic plasticity, tubulogenic capacity, and integration capability into developing kidney. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2006</b> , 17, 188-98	12.7	123
148	Multiple fibroblast growth factors support growth of the ureteric bud but have different effects on branching morphogenesis. <i>Mechanisms of Development</i> , <b>2001</b> , 109, 123-35	1.7	123
147	Genesis and reversal of the ischemic phenotype in epithelial cells. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 106, 621-6	15.9	122
146	Folding of secretory and membrane proteins. <i>New England Journal of Medicine</i> , <b>1998</b> , 339, 1688-95	59.2	120
145	TGF-beta superfamily members modulate growth, branching, shaping, and patterning of the ureteric bud. <i>Developmental Biology</i> , <b>2004</b> , 266, 285-98	3.1	115
144	Multiple molecular chaperones complex with misfolded large oligomeric glycoproteins in the endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 3057-63	5.4	114
143	Involvement of a heterotrimeric G protein alpha subunit in tight junction biogenesis. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 25750-3	5.4	112
142	Toward a systems level understanding of organic anion and other multispecific drug transporters: a remote sensing and signaling hypothesis. <i>Molecular Pharmacology</i> , <b>2009</b> , 76, 481-90	4.3	111
141	The organic anion transporter family: from physiology to ontogeny and the clinic. <i>American Journal of Physiology - Renal Physiology</i> , <b>2001</b> , 281, F197-205	4.3	108
140	Critical role for intracellular calcium in tight junction biogenesis. <i>Journal of Cellular Physiology</i> , <b>1994</b> , 159, 423-33	7	103
139	The SLC22 Transporter Family: A Paradigm for the Impact of Drug Transporters on Metabolic Pathways, Signaling, and Disease. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2018</b> , 58, 663-687	17.9	102
138	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. <i>Developmental Biology</i> , <b>2004</b> , 275, 44-67	3.1	102
137	Overlapping in vitro and in vivo specificities of the organic anion transporters OAT1 and OAT3 for loop and thiazide diuretics. <i>American Journal of Physiology - Renal Physiology</i> , <b>2008</b> , 294, F867-73	4.3	101
136	Key Role for the Organic Anion Transporters, OAT1 and OAT3, in the in vivo Handling of Uremic Toxins and Solutes. <i>Scientific Reports</i> , <b>2017</b> , 7, 4939	4.9	100
135	Role of tyrosine phosphorylation in the reassembly of occludin and other tight junction proteins. <i>American Journal of Physiology - Renal Physiology</i> , <b>1999</b> , 276, F737-50	4.3	99
134	Reassembly of the tight junction after oxidative stress depends on tyrosine kinase activity. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 22048-55	5.4	98
133	Organic anion and cation transporters occur in pairs of similar and similarly expressed genes. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 300, 333-42	3.4	96

132	Identification of a novel murine organic anion transporter family member, OAT6, expressed in olfactory mucosa. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 323, 429-36	3-4	94
131	Developmentally regulated expression of organic ion transporters NKT (OAT1), OCT1, NLT (OAT2), and Roct. <i>American Journal of Physiology - Renal Physiology</i> , <b>2000</b> , 278, F635-43	4-3	94
130	Remote communication through solute carriers and ATP binding cassette drug transporter pathways: an update on the remote sensing and signaling hypothesis. <i>Molecular Pharmacology</i> , <b>2011</b> , 79, 795-805	4-3	90
129	Dependence of epithelial intercellular junction biogenesis on thapsigargin-sensitive intracellular calcium stores. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 13636-41	5-4	88
128	Modulation of HGF-induced tubulogenesis and branching by multiple phosphorylation mechanisms. <i>Developmental Biology</i> , <b>1993</b> , 159, 535-48	3-1	86
127	A role for the organic anion transporter OAT3 in renal creatinine secretion in mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>2012</b> , 302, F1293-9	4-3	85
126	Multi-level analysis of organic anion transporters 1, 3, and 6 reveals major differences in structural determinants of antiviral discrimination. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 8654-63	5-4	79
125	Selective degradation of E-cadherin and dissolution of E-cadherin-catenin complexes in epithelial ischemia. <i>American Journal of Physiology - Renal Physiology</i> , <b>2000</b> , 278, F847-52	4-3	77
124	Hepatocyte nuclear factors 4 $\alpha$ and 1 $\beta$ regulate kidney developmental expression of drug-metabolizing enzymes and drug transporters. <i>Molecular Pharmacology</i> , <b>2013</b> , 84, 808-23	4-3	76
123	Changes in gene expression patterns in the ureteric bud and metanephric mesenchyme in models of kidney development. <i>Kidney International</i> , <b>2003</b> , 64, 1997-2008	9-9	75
122	Structural variation governs substrate specificity for organic anion transporter (OAT) homologs. Potential remote sensing by OAT family members. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 23841-53	5-4	74
121	Novel slc22 transporter homologs in fly, worm, and human clarify the phylogeny of organic anion and cation transporters. <i>Physiological Genomics</i> , <b>2004</b> , 18, 12-24	3-6	74
120	Involvement of laminin binding integrins and laminin-5 in branching morphogenesis of the ureteric bud during kidney development. <i>Developmental Biology</i> , <b>2001</b> , 238, 289-302	3-1	73
119	The role of phosphorylation in development of tight junctions in cultured renal epithelial (MDCK) cells. <i>Biochemical and Biophysical Research Communications</i> , <b>1991</b> , 181, 548-53	3-4	73
118	Identification of pleiotrophin as a mesenchymal factor involved in ureteric bud branching morphogenesis. <i>Development (Cambridge)</i> , <b>2001</b> , 128, 3283-3293	6-6	73
117	Analyses of coding region polymorphisms in apical and basolateral human organic anion transporter (OAT) genes [OAT1 (NKT), OAT2, OAT3, OAT4, URAT (RST)]. <i>Kidney International</i> , <b>2005</b> , 68, 1491-9	9-9	72
116	Deletion of multispecific organic anion transporter Oat1/Slc22a6 protects against mercury-induced kidney injury. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 26391-5	5-4	68
115	The molecular pharmacology of organic anion transporters: from DNA to FDA?. <i>Molecular Pharmacology</i> , <b>2004</b> , 65, 479-87	4-3	66

114	Regulation of ureteric bud branching morphogenesis by sulfated proteoglycans in the developing kidney. <i>Developmental Biology</i> , <b>2004</b> , 272, 310-27	3.1	66
113	Organic anion transporter 3 contributes to the regulation of blood pressure. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2008</b> , 19, 1732-40	12.7	65
112	Involvement of Galphai2 in the maintenance and biogenesis of epithelial cell tight junctions. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 21629-33	5.4	65
111	Uraemic syndrome of chronic kidney disease: altered remote sensing and signalling. <i>Nature Reviews Nephrology</i> , <b>2019</b> , 15, 301-316	14.9	62
110	Analysis of ABCG2 and other urate transporters in uric acid homeostasis in chronic kidney disease: potential role of remote sensing and signaling. <i>CKJ: Clinical Kidney Journal</i> , <b>2016</b> , 9, 444-53	4.5	62
109	Drug and toxicant handling by the OAT organic anion transporters in the kidney and other tissues. <i>Nature Clinical Practice Nephrology</i> , <b>2007</b> , 3, 443-8		62
108	The drug transporter OAT3 (SLC22A8) and endogenous metabolite communication via the gut-liver-kidney axis. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 15789-15803	5.4	61
107	Toward an etiological classification of developmental disorders of the kidney and upper urinary tract. <i>Kidney International</i> , <b>2002</b> , 61, 10-9	9.9	61
106	Constructing kidney-like tissues from cells based on programs for organ development: toward a method of in vitro tissue engineering of the kidney. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 2441-55	3.9	58
105	In vitro branching tubulogenesis: implications for developmental and cystic disorders, nephron number, renal repair, and nephron engineering. <i>Kidney International</i> , <b>1998</b> , 54, 14-26	9.9	58
104	Olfactory mucosa-expressed organic anion transporter, Oat6, manifests high affinity interactions with odorant organic anions. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 351, 872-6	3.4	56
103	Novel human cDNAs homologous to Drosophila Orct and mammalian carnitine transporters. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 297, 1159-66	3.4	55
102	Organic anion transport in choroid plexus from wild-type and organic anion transporter 3 (Slc22a8)-null mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>2004</b> , 286, F972-8	4.3	54
101	Evolutionary Analysis and Classification of OATs, OCTs, OCTNs, and Other SLC22 Transporters: Structure-Function Implications and Analysis of Sequence Motifs. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140569	3.7	53
100	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. <i>Biomaterials</i> , <b>2007</b> , 28, 4806-17	15.6	53
99	Interaction of organic cations with organic anion transporters. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 31422-30	5.4	52
98	Functional maturation of drug transporters in the developing, neonatal, and postnatal kidney. <i>Molecular Pharmacology</i> , <b>2011</b> , 80, 147-54	4.3	51
97	Linkage of organic anion transporter-1 to metabolic pathways through integrated "omics"-driven network and functional analysis. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 31522-31	5.4	51

96	Analysis of three-dimensional systems for developing and mature kidneys clarifies the role of OAT1 and OAT3 in antiviral handling. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 243-51	5.4	51
95	Glial cell-derived neurotrophic factor independent ureteric bud outgrowth from the Wolffian duct. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2007</b> , 18, 3147-55	12.7	50
94	Intracellular calcium: molecules and pools. <i>Current Opinion in Cell Biology</i> , <b>1992</b> , 4, 220-6	9	50
93	Developmental approaches to kidney tissue engineering. <i>American Journal of Physiology - Renal Physiology</i> , <b>2004</b> , 286, F1-7	4.3	49
92	Role of hyaluronan and CD44 in in vitro branching morphogenesis of ureteric bud cells. <i>Developmental Biology</i> , <b>2000</b> , 224, 312-25	3.1	49
91	Cell-cell dissociation upon epithelial cell scattering requires a step mediated by the proteasome. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 24579-84	5.4	49
90	Multispecific drug transporter Slc22a8 (Oat3) regulates multiple metabolic and signaling pathways. <i>Drug Metabolism and Disposition</i> , <b>2013</b> , 41, 1825-34	4	48
89	Beta1-integrin is required for kidney collecting duct morphogenesis and maintenance of renal function. <i>American Journal of Physiology - Renal Physiology</i> , <b>2009</b> , 297, F210-7	4.3	48
88	Molecular Properties of Drugs Interacting with SLC22 Transporters OAT1, OAT3, OCT1, and OCT2: A Machine-Learning Approach. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2016</b> , 359, 215-24	4.7	47
87	A strategy for in vitro propagation of rat nephrons. <i>Kidney International</i> , <b>2002</b> , 62, 1958-65	9.9	45
86	How does the ureteric bud branch?. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2009</b> , 20, 1465-9	2.7	43
85	Matrix metalloproteinases and their inhibitors regulate in vitro ureteric bud branching morphogenesis. <i>American Journal of Physiology - Renal Physiology</i> , <b>2000</b> , 279, F891-900	4.3	43
84	The systems biology of uric acid transporters: the role of remote sensing and signaling. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2018</b> , 27, 305-313	3.5	42
83	Stage-dependent regulation of mammary ductal branching by heparan sulfate and HGF-cMet signaling. <i>Developmental Biology</i> , <b>2011</b> , 355, 394-403	3.1	42
82	Activin A is an endogenous inhibitor of ureteric bud outgrowth from the Wolffian duct. <i>Developmental Biology</i> , <b>2006</b> , 295, 473-85	3.1	42
81	Rho kinase acts at separate steps in ureteric bud and metanephric mesenchyme morphogenesis during kidney development. <i>Differentiation</i> , <b>2006</b> , 74, 638-47	3.5	42
80	Organic anion transport pathways in antiviral handling in choroid plexus in Oat1 (Slc22a6) and Oat3 (Slc22a8) deficient tissue. <i>Neuroscience Letters</i> , <b>2013</b> , 534, 133-8	3.3	36
79	Growth factor-dependent branching of the ureteric bud is modulated by selective 6-O sulfation of heparan sulfate. <i>Developmental Biology</i> , <b>2011</b> , 356, 19-27	3.1	36

78	Selective amplification of protein-coding regions of large sets of genes using statistically designed primer sets. <i>Nature Biotechnology</i> , <b>1996</b> , 14, 857-61	44.5	35
77	Novel aspects of renal organic anion transporters. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2003</b> , 12, 551-8	3.5	34
76	A role for intracellular calcium in tight junction reassembly after ATP depletion-repletion. <i>American Journal of Physiology - Renal Physiology</i> , <b>1999</b> , 277, F524-32	4.3	34
75	Analyses of 5' regulatory region polymorphisms in human SLC22A6 (OAT1) and SLC22A8 (OAT3). <i>Journal of Human Genetics</i> , <b>2006</b> , 51, 575-580	4.3	33
74	Loss of the heparan sulfate sulfotransferase, Ndst1, in mammary epithelial cells selectively blocks lobuloalveolar development in mice. <i>PLoS ONE</i> , <b>2010</b> , 5, e10691	3.7	32
73	Organic anion and cation SLC22 "drug" transporter (Oat1, Oat3, and Oct1) regulation during development and maturation of the kidney proximal tubule. <i>PLoS ONE</i> , <b>2012</b> , 7, e40796	3.7	31
72	A Network of SLC and ABC Transporter and DME Genes Involved in Remote Sensing and Signaling in the Gut-Liver-Kidney Axis. <i>Scientific Reports</i> , <b>2019</b> , 9, 11879	4.9	30
71	Development and differentiation of the ureteric bud into the ureter in the absence of a kidney collecting system. <i>Developmental Biology</i> , <b>2006</b> , 298, 571-84	3.1	28
70	An Organic Anion Transporter 1 (OAT1)-centered Metabolic Network. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 19474-86	5.4	27
69	Hs2st mediated kidney mesenchyme induction regulates early ureteric bud branching. <i>Developmental Biology</i> , <b>2010</b> , 339, 354-65	3.1	27
68	Analysis of metagene portraits reveals distinct transitions during kidney organogenesis. <i>Science Signaling</i> , <b>2008</b> , 1, ra16	8.8	27
67	Implications of gene networks for understanding resilience and vulnerability in the kidney branching program. <i>Physiology</i> , <b>2004</b> , 19, 339-47	9.8	27
66	The developmental nephrome: systems biology in the developing kidney. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2007</b> , 16, 3-9	3.5	26
65	Biochemical processing of E-cadherin under cellular stress. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 307, 215-23	3.4	25
64	A protein kinase A and Wnt-dependent network regulating an intermediate stage in epithelial tubulogenesis during kidney development. <i>Developmental Biology</i> , <b>2012</b> , 364, 11-21	3.1	24
63	Gut-derived uremic toxin handling in vivo requires OAT-mediated tubular secretion in chronic kidney disease. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	24
62	Systems Biology Analysis Reveals Eight SLC22 Transporter Subgroups, Including OATs, OCTs, and OCTNs. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	23
61	Analysis of a large cluster of SLC22 transporter genes, including novel USTs, reveals species-specific amplification of subsets of family members. <i>Physiological Genomics</i> , <b>2009</b> , 38, 116-24	3.6	22

60	Heregulin induces glial cell line-derived neurotrophic growth factor-independent, non-branching growth and differentiation of ureteric bud epithelia. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 42181-7	5.4	22
59	Expanding role of G proteins in tight junction regulation: Galpha(s) stimulates TJ assembly. <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 285, 250-6	3.4	22
58	The instructive role of metanephric mesenchyme in ureteric bud patterning, sculpting, and maturation and its potential ability to buffer ureteric bud branching defects. <i>American Journal of Physiology - Renal Physiology</i> , <b>2009</b> , 297, F1330-41	4.3	21
57	Organogenesis forum lecture: In vitro kidney development, tissue engineering and systems biology. <i>Organogenesis</i> , <b>2008</b> , 4, 137-43	1.7	21
56	Unique metabolite preferences of the drug transporters OAT1 and OAT3 analyzed by machine learning. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 1829-1842	5.4	21
55	Generation of an expandable intermediate mesoderm restricted progenitor cell line from human pluripotent stem cells. <i>ELife</i> , <b>2015</b> , 4,	8.9	20
54	Kidney versus Liver Specification of SLC and ABC Drug Transporters, Tight Junction Molecules, and Biomarkers. <i>Drug Metabolism and Disposition</i> , <b>2016</b> , 44, 1050-60	4	18
53	Developmental regulation of kidney and liver solute carrier and ATP-binding cassette drug transporters and drug metabolizing enzymes: the role of remote organ communication. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2018</b> , 14, 561-570	5.5	18
52	Growth factor-heparan sulfate "switches" regulating stages of branching morphogenesis. <i>Pediatric Nephrology</i> , <b>2014</b> , 29, 727-35	3.2	18
51	Evolution of gene expression patterns in a model of branching morphogenesis. <i>American Journal of Physiology - Renal Physiology</i> , <b>1999</b> , 277, F650-63	4.3	18
50	Shared Ligands Between Organic Anion Transporters (OAT1 and OAT6) and Odorant Receptors. <i>Drug Metabolism and Disposition</i> , <b>2015</b> , 43, 1855-63	4	17
49	Pretreatment with inducers of ER molecular chaperones protects epithelial cells subjected to ATP depletion. <i>American Journal of Physiology - Renal Physiology</i> , <b>1999</b> , 277, F211-8	4.3	17
48	Determinants of branching tubulogenesis. <i>Current Opinion in Nephrology and Hypertension</i> , <b>1995</b> , 4, 209-14	3.4	17
47	Concise review: can the intrinsic power of branching morphogenesis be used for engineering epithelial tissues and organs?. <i>Stem Cells Translational Medicine</i> , <b>2013</b> , 2, 993-1000	6.9	16
46	Conformational changes of the multispecific transporter organic anion transporter 1 (OAT1/SLC22A6) suggests a molecular mechanism for initial stages of drug and metabolite transport. <i>Cell Biochemistry and Biophysics</i> , <b>2011</b> , 61, 251-9	3.2	16
45	MAPAS: a tool for predicting membrane-contacting protein surfaces. <i>Nature Methods</i> , <b>2008</b> , 5, 119	21.6	16
44	The Systems Biology of Drug Metabolizing Enzymes and Transporters: Relevance to Quantitative Systems Pharmacology. <i>Clinical Pharmacology and Therapeutics</i> , <b>2020</b> , 108, 40-53	6.1	15
43	EEG1, a putative transporter expressed during epithelial organogenesis: comparison with embryonic transporter expression during nephrogenesis. <i>American Journal of Physiology - Renal Physiology</i> , <b>2001</b> , 281, F1148-56	4.3	14



42	SLC22 Orthologs Related to OATs, OCTs, and OCTNs Regulate Development and Responsiveness to Oxidative Stress. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	13
41	Organic anion transporter OAT3 enhances the glucosuric effect of the SGLT2 inhibitor empagliflozin. <i>American Journal of Physiology - Renal Physiology</i> , <b>2018</b> , 315, F386-F394	4.3	13
40	Protein kinase A regulates GDNF/RET-dependent but not GDNF/Ret-independent ureteric bud outgrowth from the Wolffian duct. <i>Developmental Biology</i> , <b>2010</b> , 347, 337-47	3.1	13
39	Neuropeptide Y functions as a facilitator of GDNF-induced budding of the Wolffian duct. <i>Development (Cambridge)</i> , <b>2009</b> , 136, 4213-24	6.6	13
38	Elucidation of common pharmacophores from analysis of targeted metabolites transported by the multispecific drug transporter-Organic anion transporter1 (Oat1). <i>Bioorganic and Medicinal Chemistry</i> , <b>2011</b> , 19, 3320-40	3.4	13
37	N-sulfation of heparan sulfate regulates early branching events in the developing mammary gland. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 42064-70	5.4	12
36	Modeling of glycerol-3-phosphate transporter suggests a potential OltQ mechanism involved in its function. <i>Journal of Bioinformatics and Computational Biology</i> , <b>2008</b> , 6, 885-904	1	12
35	Coordinate regulation of systemic and kidney tryptophan metabolism by the drug transporters OAT1 and OAT3. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100575	5.4	12
34	Dynamics of Organic Anion Transporter-Mediated Tubular Secretion during Postnatal Human Kidney Development and Maturation. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , <b>2019</b> , 14, 540-548	6.9	11
33	From the ureteric bud to the penome. <i>Kidney International</i> , <b>2003</b> , 64, 2320-2	9.9	11
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