Robert L Chevalier

List of Publications by Year
in descending order

125 papers	5,602 citations	76294 40 h-index	85498 71 g-index
130 all docs	130 docs citations	130 times ranked	4300 citing authors

#	Article	IF	Citations
1	Ureteral obstruction as a model of renal interstitial fibrosis and obstructive nephropathy. Kidney International, 2009, 75, 1145-1152.	2.6	811
2	The proximal tubule is the primary target of injury and progression of kidney disease: role of the glomerulotubular junction. American Journal of Physiology - Renal Physiology, 2016, 311, F145-F161.	1.3	289
3	Mechanisms of renal injury and progression of renal disease in congenital obstructive nephropathy. Pediatric Nephrology, 2010, 25, 687-697.	0.9	188
4	Reduced angiotensinogen expression attenuates renal interstitial fibrosis in obstructive nephropathy in mice. Journal of Clinical Investigation, 1999, 103, 39-46.	3.9	161
5	Obstructive nephropathy: towards biomarker discovery and gene therapy. Nature Clinical Practice Nephrology, 2006, 2, 157-168.	2.0	159
6	A developmental approach to the prevention of hypertension and kidney disease: a report from the Low Birth Weight and Nephron Number Working Group. Lancet, The, 2017, 390, 424-428.	6.3	125
7	Molecular and cellular pathophysiology of obstructive nephropathy. Pediatric Nephrology, 1999, 13, 612-619.	0.9	119
8	Recovery following relief of unilateral ureteral obstruction in the neonatal rat. Kidney International, 1999, 55, 793-807.	2.6	117
9	Recovery from postischemic acute renal failure in the rat. Kidney International, 1979, 16, 113-123.	2.6	114
10	Ureteral obstruction in neonatal mice elicits segment-specific tubular cell responses leading to nephron loss11See Editorial by Woolf, p. 761.. Kidney International, 2003, 63, 564-575.	2.6	113
11	Obstructive nephropathy in the neonatal rat is attenuated by epidermal growth factor. Kidney International, 1998, 54, 38-47.	2.6	107
12	Pathogenesis of renal injury in obstructive uropathy. Current Opinion in Pediatrics, 2006, 18, 153-160.	1.0	106
13	Generation and Evolution of Atubular Glomeruli in the Progression of Renal Disorders. Journal of the American Society of Nephrology: JASN, 2008, 19, 197-206.	3.0	103
14	Proximal tubular injury and rapid formation of atubular glomeruli in mice with unilateral ureteral obstruction: a new look at an old model. American Journal of Physiology - Renal Physiology, 2011, 301, F110-F117.	1.3	98
15	Unilateral ureteral obstruction in neonatal rats leads to renal insufficiency in adulthood. Kidney International, 2000, 58, 1987-1995.	2.6	96
16	Arrested Development of the Neonatal Kidney Following Chronic Ureteral Obstruction. Journal of Urology, 1996, 155, 1139-1144.	0.2	90
17	UNILATERAL URETERAL OBSTRUCTION IN EARLY DEVELOPMENT ALTERS RENAL GROWTH: DEPENDENCE ON THE DURATION OF OBSTRUCTION. Journal of Urology, 1999, 161, 309-313.	0.2	86
18	Selectins mediate macrophage infiltration in obstructive nephropathy in newborn mice11See Editorial by Kipari and Hughes, p. 760.. Kidney International, 2002, 61, 516-524.	2.6	83

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19	Recovery from release of ureteral obstruction in the rat: Relationship to nephrogenesis. Kidney International, 2002, 61, 2033-2043.	2.6	81
20	Renal Apoptosis and Clusterin Following Ureteral Obstruction: The Role of Maturation. Journal of Urology, 1996, 156, 1474-1479.	0.2	80
21	BIOMARKERS OF CONGENITAL OBSTRUCTIVE NEPHROPATHY: PAST, PRESENT AND FUTURE. Journal of Urology, 2004, 172, 852-857.	0.2	78
22	Renal tubulointerstitial injury from ureteral obstruction in the neonatal rat is attenuated by IGF-1. Kidney International, 2000, 57, 882-890.	2.6	77
23	Variable chronic partial ureteral obstruction in the neonatal rat: A new model of ureteropelvic junction obstruction1. Kidney International, 2005, 67, 42-52.	2.6	73
24	Fetal Expression of the Angiotensinogen Gene*. Endocrinology, 1988, 123, 2298-2302.	1.4	71
25	Fight-or-flight: murine unilateral ureteral obstruction causes extensive proximal tubular degeneration, collecting duct dilatation, and minimal fibrosis. American Journal of Physiology - Renal Physiology, 2012, 303, F120-F129.	1.3	70
26	Lack of Endothelial Nitric-Oxide Synthase Leads to Progressive Focal Renal Injury. American Journal of Pathology, 2007, 170, 87-99.	1.9	64
27	Developmental determinants of recovery after relief of partial ureteral obstruction. Kidney International, 1988, 33, 775-781.	2.6	62
28	Altered expression of immune modulator and structural genes in neonatal unilateral ureteral obstruction. Kidney International, 2003, 64, 25-35.	2.6	59
29	Hemodynamic effects of enalapril on neonatal chronic partial mureteral obstruction. Kidney International, 1985, 28, 891-898.	2.6	58
30	Unilateral ureteral obstruction impairs renal antioxidant enzyme activation during sodium depletion. Kidney International, 1999, 55, 1327-1334.	2.6	58
31	Morphologic Correlates of Renal Growth Arrest in Neonatal Partial Ureteral Obstruction. Pediatric Research, 1987, 21, 338-346.	1.1	56
32	EDRF modulates renal hemodynamics during unilateral ureteral obstruction in the rat. Kidney International, 1992, 42, 400-406.	2.6	54
33	Tissue-Specific Regulation of Growth Factors and Clusterin by Angiotensin II. American Journal of Hypertension, 1998, 11, 715-722.	1.0	48
34	The Kidney in Congenital Ureteropelvic Junction Obstruction: A Spectrum From Normal to Nephrectomy. Journal of Urology, 2008, 179, 1257-1263.	0.2	48
35	Renal functional decline and glomerulotubular injury are arrested but not restored by release of unilateral ureteral obstruction (UUO). American Journal of Physiology - Renal Physiology, 2013, 304, F432-F439.	1.3	48
36	Chronic Partial Ureteral Obstruction in the Neonatal Guinea Pig. I. Influence of Uninephrectomy on Growth and Hemodynamics. Pediatric Research, 1984, 18, 1266-1271.	1.1	46

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37	Congenital urinary tract obstruction: Proceedings of the State-Of-The-Art Strategic Planning Workshopâ€"National Institutes of Health, Bethesda, Maryland, USA, 11â€"12 March 2002. Pediatric Nephrology, 2003, 18, 576-606.	0.9	46
38	Macrophages induce apoptosis in proximal tubule cells. Pediatric Nephrology, 2003, 18, 335-341.	0.9	42
39	Interrelationship of atrial natriuretic peptide, atrial volume, and renal function in premature infants. Journal of Pediatrics, 1990, 116, 753-759.	0.9	41
40	Perinatal Obstructive Nephropathy. Seminars in Perinatology, 2004, 28, 124-131.	1.1	41
41	Growth factor-mediated phosphorylation of proapoptotic BAD reduces tubule cell death in vitro and in vivo. Kidney International, 2003, 63, 33-42.	2.6	40
42	Congenital Urinary Tract Obstruction: The Long View. Advances in Chronic Kidney Disease, 2015, 22, 312-319.	0.6	40
43	EGF IMPROVES RECOVERY FOLLOWING RELIEF OF UNILATERAL URETERAL OBSTRUCTION IN THE NEONATAL RAT. Journal of Urology, 1999, 162, 1532-1536.	0.2	39
44	Tubular Obstruction Leads to Progressive Proximal Tubular Injury and Atubular Glomeruli in Polycystic Kidney Disease. American Journal of Pathology, 2014, 184, 1957-1966.	1.9	39
45	The moth and the aspen tree: Sodium in early postnatal development. Kidney International, 2001, 59, 1617-1625.	2.6	38
46	Angiotensin-Converting Enzyme Inhibition Decreases Growth Factor Expression in the Neonatal Rat Kidney. Pediatric Research, 1997, 42, 588-592.	1.1	38
47	Neonatal ureteral obstruction stimulates recruitment of renin-secreting renal cortical cells. Kidney International, 1994, 45, 1333-1339.	2.6	37
48	Chronic Ureteral Obstruction in the Rat Suppresses Renal Tubular Bcl-2 and Stimulates Apoptosis. Nephron Experimental Nephrology, 2000, 8, 115-122.	2.4	37
49	Prognostic factors and biomarkers of congenital obstructive nephropathy. Pediatric Nephrology, 2016, 31, 1411-1420.	0.9	37
50	Arrested Development of the Neonatal Kidney Following Chronic Ureteral Obstruction. Journal of Urology, 1996, 155, 1139-1144.	0.2	37
51	Chronic Partial Ureteral Obstruction in the Neonatal Guinea Pig. II. Pressure Gradients Affecting Glomerular Filtration Rate. Pediatric Research, 1984, 18, 1271-1277.	1.1	35
52	The swan-neck lesion: proximal tubular adaptation to oxidative stress in nephropathic cystinosis. American Journal of Physiology - Renal Physiology, 2015, 308, F1155-F1166.	1.3	35
53	Renal Effects of Atrial Natriuretic Peptide Infusion in Young and Adult Rats. Pediatric Research, 1988, 24, 333-337.	1.1	34
54	Compensatory renal growth due to neonatal ureteral obstruction: implications for clinical studies. Pediatric Nephrology, 2006, 21, 368-375.	0.9	34

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55	Angiotensin-converting enzyme inhibition aggravates renal interstitial injury resulting from partial unilateral ureteral obstruction in the neonatal rat. American Journal of Physiology - Renal Physiology, 2007, 292, F946-F955.	1.3	34
56	Evolution, kidney development, and chronic kidney disease. Seminars in Cell and Developmental Biology, 2019, 91, 119-131.	2.3	34
57	When is one kidney not enough?. Kidney International, 2009, 76, 475-477.	2.6	30
58	Chronic partial ureteral obstruction and the developing kidney. Pediatric Radiology, 2008, 38, 35-40.	1.1	28
59	Evolutionary Nephrology. Kidney International Reports, 2017, 2, 302-317.	0.4	28
60	Ureteral obstruction in the neonatal rat: Renal nerves modulate hemodynamic effects. Pediatric Nephrology, 1995, 9, 447-450.	0.9	27
61	Chronic unilateral ureteral obstruction in the neonatal mouse delays maturation of both kidneys and leads to late formation of atubular glomeruli. American Journal of Physiology - Renal Physiology, 2013, 305, F1736-F1746.	1.3	27
62	Angiotensin stimulates TGF-Î²1 and clusterin in the hydronephrotic neonatal rat kidney. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 278, R640-R645.	0.9	25
63	Epidermal growth factor potentiates renal cell death in hydronephrotic neonatal mice, but cell survival in rats. Kidney International, 2005, 68, 504-514.	2.6	25
64	Expression of Renin and Its mRNA in the Adult Rat Kidney With Chronic Ureteral Obstruction. American Journal of Kidney Diseases, 1990, 15, 575-582.	2.1	24
65	Renal cellular response to ureteral obstruction: role of maturation and angiotensin II. American Journal of Physiology - Renal Physiology, 1999, 277, F41-F47.	1.3	24
66	Specific molecular targeting of renal injury in obstructive nephropathy. Kidney International, 2006, 70, 1200-1201.	2.6	24
67	A_{2A} Adenosine Receptor Agonist and PDE₄ Inhibition Delays Inflammation but Fails to Reduce Injury in Experimental Obstructive Nephropathy. Nephron Experimental Nephrology, 2005, 100, e113-e123.	2.4	22
68	Angiotensin AT1-receptor inhibition exacerbates renal injury resulting from partial unilateral ureteral obstruction in the neonatal rat. American Journal of Physiology - Renal Physiology, 2007, 293, F262-F268.	1.3	20
69	Renal vascular endothelial growth factor in neonatal obstructive nephropathy. I. Endogenous VEGF. American Journal of Physiology - Renal Physiology, 2007, 292, F158-F167.	1.3	20
70	Atrial natriuretic peptide in renal development. Pediatric Nephrology, 1993, 7, 652-656.	0.9	19
71	Dietary Sodium Modulates Neonatal but Not Adult Cardiac Atrial Natriuretic Peptide in Rats. Pediatric Research, 1995, 37, 310-315.	1.1	19
72	Glomerular Number and Perfusion during Normal and Compensatory Renal Growth in the Guinea Pig. Pediatric Research, 1982, 16, 436-440.	1.1	18

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73	Renal apoptosis parallels ceramide content after prolonged ureteral obstruction in the neonatal rat. American Journal of Physiology - Renal Physiology, 2001, 281, F56-F61.	1.3	18
74	Expression of connexins in the normal and obstructed developing kidney. Pediatric Nephrology, 2003, 18, 216-224.	0.9	18
75	Transforming growth factor-Î²₁receptor inhibition preserves glomerulotubular integrity during ureteral obstruction in adults but worsens injury in neonatal mice. American Journal of Physiology - Renal Physiology, 2013, 304, F481-F490.	1.3	18
76	Counterbalance in functional adaptation to ureteral obstruction during development. Pediatric Nephrology, 1990, 4, 442-444.	0.9	16
77	Inducible nitric oxide synthase modulates hydronephrosis following partial or complete unilateral ureteral obstruction in the neonatal mouse. American Journal of Physiology - Renal Physiology, 2010, 298, F62-F71.	1.3	16
78	Molecular cloning of KS, a novel rat gene expressed exclusively in the kidney. Kidney International, 1998, 54, 1444-1454.	2.6	15
79	Obstructive Nephropathy: Lessons from Cystic Kidney Disease. Nephron, 2000, 84, 6-12.	0.9	15
80	Changes in cell fate determine the regenerative and functional capacity of the developing kidney before and after release of obstruction. Clinical Science, 2018, 132, 2519-2545.	1.8	15
81	Ureteral obstruction in the neonatal guinea pig: Interaction of sympathetic nerves and angiotensin. Pediatric Nephrology, 1995, 9, 441-446.	0.9	14
82	Bioenergetic Evolution Explains Prevalence of Low Nephron Number at Birth: Risk Factor for CKD. Kidney360, 2020, 1, 863-879.	0.9	14
83	Mechanisms of Fetal and Neonatal Renal Impairment by Pharmacologic Inhibition of Angiotensin. Current Medicinal Chemistry, 2012, 19, 4572-4580.	1.2	13
84	The Fate of Nephrons in Congenital Obstructive Nephropathy: Adult Recovery is Limited by Nephron Number Despite Early Release of Obstruction. Journal of Urology, 2015, 194, 1463-1472.	0.2	13
85	Systems biology combining human- and animal-data miRNA and mRNA data identifies new targets in ureteropelvic junction obstruction. BMC Systems Biology, 2017, 11, 31.	3.0	12
86	Responses of proximal tubular cells to injury in congenital renal disease: fight or flight. Pediatric Nephrology, 2014, 29, 537-541.	0.9	11
87	Variable Partial Unilateral Ureteral Obstruction and Its Release in the Neonatal and Adult Mouse. Methods in Molecular Biology, 2012, 886, 381-392.	0.4	11
88	Obstructive nephropathy and the developing kidney: Too little or too much angiotensin?. Kidney International, 2004, 65, 1517-1518.	2.6	10
89	Formation of atubular glomeruli in the developing kidney following chronic urinary tract obstruction. Pediatric Nephrology, 2011, 26, 1381-1385.	0.9	10
90	Impact of early life development on later onset chronic kidney disease and hypertension and the role of evolutionary tradeâ€offs. Experimental Physiology, 2022, 107, 410-414.	0.9	10

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91	Renal vascular endothelial growth factor in neonatal obstructive nephropathy. II. Exogenous VEGF. American Journal of Physiology - Renal Physiology, 2007, 292, F168-F174.	1.3	9
92	Enhanced clearance of vancomycin by hemodialysis in a child. Pediatric Nephrology, 1989, 3, 83-85.	0.9	8
93	Evolution and Kidney Development: A Rosetta Stone for Nephrology. Journal of the American Society of Nephrology: JASN, 2018, 29, 706-709.	3.0	8
94	Promise for gene therapy in obstructive nephropathy. Kidney International, 2004, 66, 1709-1710.	2.6	7
95	The Proximal Tubule in Cystinosis. Journal of the American Society of Nephrology: JASN, 2014, 25, 1131-1132.	3.0	7
96	Hemodynamic Adaptation to Reduced Renal Mass in Early Postnatal Development. Pediatric Research, 1983, 17, 620-624.	1.1	6
97	Research exposure and academic pediatric careers. Journal of Pediatrics, 2003, 143, 547-548.	0.9	6
98	The Life Cycle of the Kidney: Implications for CKD. Journal of the American Society of Nephrology: JASN, 2014, 25, 2388-2390.	3.0	6
99	Renal Apoptosis and Clusterin Following Ureteral Obstruction. Journal of Urology, 1996, , 1474-1479.	0.2	6
100	Congenital Urinary Obstruction. , 2012, , 3028-3047.e6.		6
101	Urinary biomarkers: the future looks promising. Kidney International, 2009, 76, 133-134.	2.6	5
102	The Human Kidney at Birth: Structure and Function in Transition. Current Clinical Pathology, 2014, , 49-58.	0.0	5
103	Developmental Origins of CKD: Big Problems From Small Packages. American Journal of Kidney Diseases, 2018, 71, 3-5.	2.1	4
104	UNILATERAL URETERAL OBSTRUCTION IN EARLY DEVELOPMENT ALTERS RENAL GROWTH. Journal of Urology, 1999, , 309-313.	0.2	4
105	EDITORIAL: CONGENITAL ANOMALIES OF THE KIDNEY AND URINARY TRACT. Journal of Urology, 2001, 165, 203-204.	0.2	3
106	Obstructive Uropathy. , 2012, , 335-359.		3
107	Thirty-three years of progress: the International Workshops on Developmental Nephrology and the role of IPNA. Pediatric Nephrology, 2014, 29, 499-504.	0.9	3
108	Functional Development of the Kidney in Utero. , 2011, , 1316-1322.		3

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109	Regulation of the Renal Response to Atrial Natriuretic Peptide by Sodium Intake in Preweaned Rats. Pediatric Research, 1996, 40, 294-299.	1.1	3
110	Obstructive Uropathy: Assessment of Renal Function in the Fetus. , 2008, , 225-250.		3
111	Obstructive Uropathy. , 2009, , 1337-1377.		3
112	Response to Nephron Loss in Early Development. , 2017, , 1074-1080.e3.		2
113	Ask the expert. Pediatric Nephrology, 1991, 5, 102-102.	0.9	1
114	Author's reply:. American Journal of Kidney Diseases, 2000, 35, 775-776.	2.1	1
115	Jean Oliver: Master of the Nephron. Urology, 2020, 144, 17-20.	0.5	1
116	Response to Nephron Loss in Early Development. , 2011, , 1423-1428.		1
117	EGF IMPROVES RECOVERY FOLLOWING RELIEF OF UNILATERAL URETERAL OBSTRUCTION IN THE NEONATAL RAT. Journal of Urology, 1999, , 1532-1536.	0.2	1
118	Response to Nephron Loss in Early Development. , 2004, , 1330-1335.		1
119	Bladder polyp and heavy proteinuria in a patient with hodgkin's disease in remission. Cancer, 1984, 54, 777-779.	2.0	0
120	Introduction to the Proceedings of the Eighth International Workshop on Developmental Nephrology: Genes, Morphogenesis, and Function. Pediatric Nephrology, 2003, 18, 164-164.	0.9	0
121	Response to â€˜The case of the solitary sick kidneyâ€™. Kidney International, 2010, 77, 258-259.	2.6	0
122	Fetal urinary tract obstruction. , 0, , 238-245.		0
123	Glomerulopathy. Evolution, Medicine and Public Health, 2021, 9, 220-220.	1.1	0
124	Obstructive uropathy. , 2006, , 507-518.		0
125	Approach to Renal Disease in the Neonate. , 2012, , 2697-2703.		0