Robert L Chevalier

List of Publications by Year
in descending order

125 papers	5,602 citations	87401 40 h-index	97045 71 g-index
130 all docs	130 docs citations	130 times ranked	4616 citing authors

#	Article	IF	Citations
1	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
2	Glomerulopathy. Evolution, Medicine and Public Health, 2021, 9, 220-220.	1.1	0
3	Jean Oliver: Master of the Nephron. Urology, 2020, 144, 17-20.	0.5	1
4	Bioenergetic Evolution Explains Prevalence of Low Nephron Number at Birth: Risk Factor for CKD. Kidney360, 2020, 1, 863-879.	0.9	14
5	Evolution, kidney development, and chronic kidney disease. Seminars in Cell and Developmental Biology, 2019, 91, 119-131.	2.3	34
6	Evolution and Kidney Development: A Rosetta Stone for Nephrology. Journal of the American Society of Nephrology: JASN, 2018, 29, 706-709.	3.0	8
7	Developmental Origins of CKD: Big Problems From Small Packages. American Journal of Kidney Diseases, 2018, 71, 3-5.	2.1	4
8	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
9	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
10	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
11	Evolutionary Nephrology. Kidney International Reports, 2017, 2, 302-317.	0.4	28
12	Response to Nephron Loss in Early Development. , 2017, , 1074-1080.e3.		2
13	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
14	Prognostic factors and biomarkers of congenital obstructive nephropathy. Pediatric Nephrology, 2016, 31, 1411-1420.	0.9	37
15	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
16	Congenital Urinary Tract Obstruction: The Long View. Advances in Chronic Kidney Disease, 2015, 22, 312-319.	0.6	40
17	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
18	The Life Cycle of the Kidney: Implications for CKD. Journal of the American Society of Nephrology: JASN, 2014, 25, 2388-2390.	3.0	6

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19	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
20	The Proximal Tubule in Cystinosis. Journal of the American Society of Nephrology: JASN, 2014, 25, 1131-1132.	3.0	7
21	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
22	Responses of proximal tubular cells to injury in congenital renal disease: fight or flight. Pediatric Nephrology, 2014, 29, 537-541.	0.9	11
23	The Human Kidney at Birth: Structure and Function in Transition. Current Clinical Pathology, 2014, , 49-58.	0.0	5
24	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
25	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
26	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
27	Obstructive Uropathy. , 2012, , 335-359.		3
28	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
29	Mechanisms of Fetal and Neonatal Renal Impairment by Pharmacologic Inhibition of Angiotensin. Current Medicinal Chemistry, 2012, 19, 4572-4580.	1.2	13
30	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
31	Approach to Renal Disease in the Neonate. , 2012, , 2697-2703.		0
32	Congenital Urinary Obstruction. , 2012, , 3028-3047.e6.		6
33	Formation of atubular glomeruli in the developing kidney following chronic urinary tract obstruction. Pediatric Nephrology, 2011, 26, 1381-1385.	0.9	10
34	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
35	Functional Development of the Kidney in Utero. , 2011, , 1316-1322.		3
36	Response to Nephron Loss in Early Development. , 2011, , 1423-1428.		1

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37	Response to â€˜The case of the solitary sick kidneyâ€™. Kidney International, 2010, 77, 258-259.	2.6	0
38	Mechanisms of renal injury and progression of renal disease in congenital obstructive nephropathy. Pediatric Nephrology, 2010, 25, 687-697.	0.9	188
39	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
40	Urinary biomarkers: the future looks promising. Kidney International, 2009, 76, 133-134.	2.6	5
41	When is one kidney not enough?. Kidney International, 2009, 76, 475-477.	2.6	30
42	Ureteral obstruction as a model of renal interstitial fibrosis and obstructive nephropathy. Kidney International, 2009, 75, 1145-1152.	2.6	811
43	Obstructive Uropathy. , 2009, , 1337-1377.		3
44	Chronic partial ureteral obstruction and the developing kidney. Pediatric Radiology, 2008, 38, 35-40.	1.1	28
45	The Kidney in Congenital Ureteropelvic Junction Obstruction: A Spectrum From Normal to Nephrectomy. Journal of Urology, 2008, 179, 1257-1263.	0.2	48
46	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
47	Obstructive Uropathy: Assessment of Renal Function in the Fetus. , 2008, , 225-250.		3
48	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
49	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
50	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
51	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
52	Lack of Endothelial Nitric-Oxide Synthase Leads to Progressive Focal Renal Injury. American Journal of Pathology, 2007, 170, 87-99.	1.9	64
53	Pathogenesis of renal injury in obstructive uropathy. Current Opinion in Pediatrics, 2006, 18, 153-160.	1.0	106
54	Specific molecular targeting of renal injury in obstructive nephropathy. Kidney International, 2006, 70, 1200-1201.	2.6	24

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55	Compensatory renal growth due to neonatal ureteral obstruction: implications for clinical studies. Pediatric Nephrology, 2006, 21, 368-375.	0.9	34
56	Obstructive nephropathy: towards biomarker discovery and gene therapy. Nature Clinical Practice Nephrology, 2006, 2, 157-168.	2.0	159
57	Obstructive uropathy. , 2006, , 507-518.		0
58	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
59	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
60	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
61	Obstructive nephropathy and the developing kidney: Too little or too much angiotensin?. Kidney International, 2004, 65, 1517-1518.	2.6	10
62	Promise for gene therapy in obstructive nephropathy. Kidney International, 2004, 66, 1709-1710.	2.6	7
63	Perinatal Obstructive Nephropathy. Seminars in Perinatology, 2004, 28, 124-131.	1.1	41
64	BIOMARKERS OF CONGENITAL OBSTRUCTIVE NEPHROPATHY: PAST, PRESENT AND FUTURE. Journal of Urology, 2004, 172, 852-857.	0.2	78
65	Response to Nephron Loss in Early Development. , 2004, , 1330-1335.		1
66	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
67	Expression of connexins in the normal and obstructed developing kidney. Pediatric Nephrology, 2003, 18, 216-224.	0.9	18
68	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
69	Macrophages induce apoptosis in proximal tubule cells. Pediatric Nephrology, 2003, 18, 335-341.	0.9	42
70	Altered expression of immune modulator and structural genes in neonatal unilateral ureteral obstruction. Kidney International, 2003, 64, 25-35.	2.6	59
71	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
72	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

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73	Research exposure and academic pediatric careers. Journal of Pediatrics, 2003, 143, 547-548.	0.9	6
74	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
75	Recovery from release of ureteral obstruction in the rat: Relationship to nephrogenesis. Kidney International, 2002, 61, 2033-2043.	2.6	81
76	EDITORIAL: CONGENITAL ANOMALIES OF THE KIDNEY AND URINARY TRACT. Journal of Urology, 2001, 165, 203-204.	0.2	3
77	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
78	The moth and the aspen tree: Sodium in early postnatal development. Kidney International, 2001, 59, 1617-1625.	2.6	38
79	Obstructive Nephropathy: Lessons from Cystic Kidney Disease. Nephron, 2000, 84, 6-12.	0.9	15
80	Renal tubulointerstitial injury from ureteral obstruction in the neonatal rat is attenuated by IGF-1. Kidney International, 2000, 57, 882-890.	2.6	77
81	Unilateral ureteral obstruction in neonatal rats leads to renal insufficiency in adulthood. Kidney International, 2000, 58, 1987-1995.	2.6	96
82	Chronic Ureteral Obstruction in the Rat Suppresses Renal Tubular Bcl-2 and Stimulates Apoptosis. Nephron Experimental Nephrology, 2000, 8, 115-122.	2.4	37
83	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
84	Author's reply:. American Journal of Kidney Diseases, 2000, 35, 775-776.	2.1	1
85	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
86	Unilateral ureteral obstruction impairs renal antioxidant enzyme activation during sodium depletion. Kidney International, 1999, 55, 1327-1334.	2.6	58
87	Recovery following relief of unilateral ureteral obstruction in the neonatal rat. Kidney International, 1999, 55, 793-807.	2.6	117
88	Molecular and cellular pathophysiology of obstructive nephropathy. Pediatric Nephrology, 1999, 13, 612-619.	0.9	119
89	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
90	EGF IMPROVES RECOVERY FOLLOWING RELIEF OF UNILATERAL URETERAL OBSTRUCTION IN THE NEONATAL RAT. Journal of Urology, 1999, 162, 1532-1536.	0.2	39

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91	UNILATERAL URETERAL OBSTRUCTION IN EARLY DEVELOPMENT ALTERS RENAL GROWTH. Journal of Urology, 1999, , 309-313.	0.2	4
92	EGF IMPROVES RECOVERY FOLLOWING RELIEF OF UNILATERAL URETERAL OBSTRUCTION IN THE NEONATAL RAT. Journal of Urology, 1999, , 1532-1536.	0.2	1
93	Reduced angiotensinogen expression attenuates renal interstitial fibrosis in obstructive nephropathy in mice. Journal of Clinical Investigation, 1999, 103, 39-46.	3.9	161
94	Molecular cloning of KS, a novel rat gene expressed exclusively in the kidney. Kidney International, 1998, 54, 1444-1454.	2.6	15
95	Obstructive nephropathy in the neonatal rat is attenuated by epidermal growth factor. Kidney International, 1998, 54, 38-47.	2.6	107
96	Tissue-Specific Regulation of Growth Factors and Clusterin by Angiotensin II. American Journal of Hypertension, 1998, 11, 715-722.	1.0	48
97	Angiotensin-Converting Enzyme Inhibition Decreases Growth Factor Expression in the Neonatal Rat Kidney. Pediatric Research, 1997, 42, 588-592.	1.1	38
98	Arrested Development of the Neonatal Kidney Following Chronic Ureteral Obstruction. Journal of Urology, 1996, 155, 1139-1144.	0.2	90
99	Renal Apoptosis and Clusterin Following Ureteral Obstruction: The Role of Maturation. Journal of Urology, 1996, 156, 1474-1479.	0.2	80
100	Arrested Development of the Neonatal Kidney Following Chronic Ureteral Obstruction. Journal of Urology, 1996, 155, 1139-1144.	0.2	37
101	Renal Apoptosis and Clusterin Following Ureteral Obstruction. Journal of Urology, 1996, , 1474-1479.	0.2	6
102	Regulation of the Renal Response to Atrial Natriuretic Peptide by Sodium Intake in Preweaned Rats. Pediatric Research, 1996, 40, 294-299.	1.1	3
103	Ureteral obstruction in the neonatal guinea pig: Interaction of sympathetic nerves and angiotensin. Pediatric Nephrology, 1995, 9, 441-446.	0.9	14
104	Ureteral obstruction in the neonatal rat: Renal nerves modulate hemodynamic effects. Pediatric Nephrology, 1995, 9, 447-450.	0.9	27
105	Dietary Sodium Modulates Neonatal but Not Adult Cardiac Atrial Natriuretic Peptide in Rats. Pediatric Research, 1995, 37, 310-315.	1.1	19
106	Neonatal ureteral obstruction stimulates recruitment of renin-secreting renal cortical cells. Kidney International, 1994, 45, 1333-1339.	2.6	37
107	Atrial natriuretic peptide in renal development. Pediatric Nephrology, 1993, 7, 652-656.	0.9	19
108	EDRF modulates renal hemodynamics during unilateral ureteral obstruction in the rat. Kidney International, 1992, 42, 400-406.	2.6	54

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109	Ask the expert. Pediatric Nephrology, 1991, 5, 102-102.	0.9	1
110	Counterbalance in functional adaptation to ureteral obstruction during development. Pediatric Nephrology, 1990, 4, 442-444.	0.9	16
111	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
112	Interrelationship of atrial natriuretic peptide, atrial volume, and renal function in premature infants. Journal of Pediatrics, 1990, 116, 753-759.	0.9	41
113	Enhanced clearance of vancomycin by hemodialysis in a child. Pediatric Nephrology, 1989, 3, 83-85.	0.9	8
114	Developmental determinants of recovery after relief of partial ureteral obstruction. Kidney International, 1988, 33, 775-781.	2.6	62
115	Renal Effects of Atrial Natriuretic Peptide Infusion in Young and Adult Rats. Pediatric Research, 1988, 24, 333-337.	1.1	34
116	Fetal Expression of the Angiotensinogen Gene*. Endocrinology, 1988, 123, 2298-2302.	1.4	71
117	Morphologic Correlates of Renal Growth Arrest in Neonatal Partial Ureteral Obstruction. Pediatric Research, 1987, 21, 338-346.	1.1	56
118	Hemodynamic effects of enalapril on neonatal chronic partial mureteral obstruction. Kidney International, 1985, 28, 891-898.	2.6	58
119	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
120	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
121	Bladder polyp and heavy proteinuria in a patient with hodgkin's disease in remission. Cancer, 1984, 54, 777-779.	2.0	0
122	Hemodynamic Adaptation to Reduced Renal Mass in Early Postnatal Development. Pediatric Research, 1983, 17, 620-624.	1.1	6
123	Glomerular Number and Perfusion during Normal and Compensatory Renal Growth in the Guinea Pig. Pediatric Research, 1982, 16, 436-440.	1.1	18
124	Recovery from postischemic acute renal failure in the rat. Kidney International, 1979, 16, 113-123.	2.6	114
125	Fetal urinary tract obstruction. , 0, , 238-245.		0