

# Lawrence B Holzman

## List of Publications by Citations

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108  
papers

8,876  
citations

54  
h-index

93  
g-index

114  
ext. papers

9,817  
ext. citations

7.9  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
108	Podocyte depletion causes glomerulosclerosis: diphtheria toxin-induced podocyte depletion in rats expressing human diphtheria toxin receptor transgene. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2005</b> , 16, 2941-52	12.7	566
107	Podocin, a raft-associated component of the glomerular slit diaphragm, interacts with CD2AP and nephrin. <i>Journal of Clinical Investigation</i> , <b>2001</b> , 108, 1621-1629	15.9	438
106	Positional cloning uncovers mutations in PLCE1 responsible for a nephrotic syndrome variant that may be reversible. <i>Nature Genetics</i> , <b>2006</b> , 38, 1397-405	36.3	432
105	mTORC1 activation in podocytes is a critical step in the development of diabetic nephropathy in mice. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 2181-96	15.9	383
104	Wnt/beta-catenin signaling promotes podocyte dysfunction and albuminuria. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2009</b> , 20, 1997-2008	12.7	302
103	Podocyte-selective deletion of dicer induces proteinuria and glomerulosclerosis. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2008</b> , 19, 2159-69	12.7	298
102	Podocyte depletion and glomerulosclerosis have a direct relationship in the PAN-treated rat. <i>Kidney International</i> , <b>2001</b> , 60, 957-68	9.9	298
101	Nephrin ectodomain engagement results in Src kinase activation, nephrin phosphorylation, Nck recruitment, and actin polymerization. <i>Journal of Clinical Investigation</i> , <b>2006</b> , 116, 1346-59	15.9	256
100	Podocyte-specific expression of cre recombinase in transgenic mice. <i>Genesis</i> , <b>2003</b> , 35, 39-42	1.9	240
99	Nephrin localizes to the slit pore of the glomerular epithelial cell. <i>Kidney International</i> , <b>1999</b> , 56, 1481-91	9.9	227
98	Requirement for Ras/Rac1-mediated p38 and c-Jun N-terminal kinase signaling in Stat3 transcriptional activity induced by the Src oncoprotein. <i>Molecular and Cellular Biology</i> , <b>1999</b> , 19, 7519-28	4.8	218
97	Fyn binds to and phosphorylates the kidney slit diaphragm component Nephrin. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 20716-23	5.4	183
96	Design of the Nephrotic Syndrome Study Network (NEPTUNE) to evaluate primary glomerular nephropathy by a multidisciplinary approach. <i>Kidney International</i> , <b>2013</b> , 83, 749-56	9.9	177
95	Re-expression of the developmental gene Pax-2 during experimental acute tubular necrosis in mice 1. <i>Kidney International</i> , <b>1999</b> , 56, 1423-31	9.9	152
94	Podocytes populate cellular crescents in a murine model of inflammatory glomerulonephritis. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2004</b> , 15, 61-7	12.7	151
93	Protocadherin FAT1 binds Ena/VASP proteins and is necessary for actin dynamics and cell polarization. <i>EMBO Journal</i> , <b>2004</b> , 23, 3769-79	13	142
92	Nephrin and Neph1 co-localize at the podocyte foot process intercellular junction and form cis hetero-oligomers. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 19266-71	5.4	140

91	Wnt/ $\beta$ -catenin pathway in podocytes integrates cell adhesion, differentiation, and survival. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 26003-15	5.4	139
90	Disruption of glomerular basement membrane charge through podocyte-specific mutation of agrin does not alter glomerular permselectivity. <i>American Journal of Pathology</i> , <b>2007</b> , 171, 139-52	5.8	139
89	Beta1 integrin expression by podocytes is required to maintain glomerular structural integrity. <i>Developmental Biology</i> , <b>2008</b> , 316, 288-301	3.1	135
88	Podocyte-specific deletion of integrin-linked kinase results in severe glomerular basement membrane alterations and progressive glomerulosclerosis. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2006</b> , 17, 1334-44	12.7	124
87	Nephritogenic mAb 5-1-6 is directed at the extracellular domain of rat nephrin. <i>Journal of Clinical Investigation</i> , <b>1999</b> , 104, 1559-66	15.9	124
86	Neph1 cooperates with nephrin to transduce a signal that induces actin polymerization. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 8698-712	4.8	121
85	Altered podocyte structure in GLEPP1 (Ptpro)-deficient mice associated with hypertension and low glomerular filtration rate. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 106, 1281-90	15.9	115
84	Stable expression of nephrin and localization to cell-cell contacts in novel murine podocyte cell lines. <i>Kidney International</i> , <b>2004</b> , 66, 91-101	9.9	112
83	Dual leucine zipper-bearing kinase (DLK) activates p46SAPK and p38mapk but not ERK2. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 24788-93	5.4	111
82	Role of dynamin, synaptojanin, and endophilin in podocyte foot processes. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 4401-11	15.9	107
81	Divergent functions of the Rho GTPases Rac1 and Cdc42 in podocyte injury. <i>Kidney International</i> , <b>2013</b> , 84, 920-30	9.9	105
80	A reassessment of soluble urokinase-type plasminogen activator receptor in glomerular disease. <i>Kidney International</i> , <b>2015</b> , 87, 564-74	9.9	101
79	Two gene fragments that direct podocyte-specific expression in transgenic mice. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2002</b> , 13, 1561-7	12.7	91
78	Podocyte-associated talin1 is critical for glomerular filtration barrier maintenance. <i>Journal of Clinical Investigation</i> , <b>2014</b> , 124, 1098-113	15.9	91
77	Inhibition of podocyte FAK protects against proteinuria and foot process effacement. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2010</b> , 21, 1145-56	12.7	89
76	Actin-depolymerizing factor cofilin-1 is necessary in maintaining mature podocyte architecture. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 22676-88	5.4	88
75	The inducible deletion of Drosha and microRNAs in mature podocytes results in a collapsing glomerulopathy. <i>Kidney International</i> , <b>2011</b> , 80, 719-30	9.9	88
74	The mixed lineage kinase DLK utilizes MKK7 and not MKK4 as substrate. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 10195-202	5.4	81

73	Nephritogenic mAb 5-1-6 is directed at the extracellular domain of rat nephrin. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 105, 125-125	15.9	78
72	Podocyte-associated talin1 is critical for glomerular filtration barrier maintenance. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 882-882	15.9	78
71	Crk1/2-dependent signaling is necessary for podocyte foot process spreading in mouse models of glomerular disease. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 674-92	15.9	76
70	Clinical impact of research on the podocyte slit diaphragm. <i>Nature Clinical Practice Nephrology</i> , <b>2006</b> , 2, 271-82		75
69	Hepatocyte growth factor signaling ameliorates podocyte injury and proteinuria. <i>Kidney International</i> , <b>2010</b> , 77, 962-73	9.9	72
68	Loss of heparan sulfate glycosaminoglycan assembly in podocytes does not lead to proteinuria. <i>Kidney International</i> , <b>2008</b> , 74, 289-99	9.9	71
67	Inducible podocyte-specific gene expression in transgenic mice. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2003</b> , 14, 1998-2003	12.7	71
66	Nephrin Preserves Podocyte Viability and Glomerular Structure and Function in Adult Kidneys. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2015</b> , 26, 2361-77	12.7	70
65	FAT1 mutations cause a glomerulotubular nephropathy. <i>Nature Communications</i> , <b>2016</b> , 7, 10822	17.4	69
64	Phosphorylation of Pax2 by the c-Jun N-terminal kinase and enhanced Pax2-dependent transcription activation. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 1217-22	5.4	68
63	Podocyte-specific deletion of Myh9 encoding nonmuscle myosin heavy chain 2A predisposes mice to glomerulopathy. <i>Molecular and Cellular Biology</i> , <b>2011</b> , 31, 2162-70	4.8	65
62	Recruitment of JNK to JIP1 and JNK-dependent JIP1 phosphorylation regulates JNK module dynamics and activation. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 28694-702	5.4	61
61	Ischemic injury to kidney induces glomerular podocyte effacement and dissociation of slit diaphragm proteins Nephrin and ZO-1. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 35579-89	5.4	60
60	Characterization of dual leucine zipper-bearing kinase, a mixed lineage kinase present in synaptic terminals whose phosphorylation state is regulated by membrane depolarization via calcineurin. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 16888-96	5.4	60
59	Cloning and expression of the rat nephrin homolog. <i>American Journal of Pathology</i> , <b>1999</b> , 155, 907-13	5.8	58
58	Identification of structural and functional domains in mixed lineage kinase dual leucine zipper-bearing kinase required for complex formation and stress-activated protein kinase activation. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 7273-9	5.4	57
57	APOL1 null alleles from a rural village in India do not correlate with glomerulosclerosis. <i>PLoS ONE</i> , <b>2012</b> , 7, e51546	3.7	56
56	Evaluation of a new tool for exploring podocyte biology: mouse Nphs1 5Tflanking region drives LacZ expression in podocytes. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2000</b> , 11, 2306-2314	12.7	55

55	Vascular endothelial growth factor receptor 2 direct interaction with nephrin links VEGF-A signals to actin in kidney podocytes. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 39933-44	5.4	54
54	GLUT-1 reduces hypoxia-induced apoptosis and JNK pathway activation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2000</b> , 278, E958-66	6	53
53	The podocyte-specific inactivation of Lmx1b, Ldb1 and E2a yields new insight into a transcriptional network in podocytes. <i>Developmental Biology</i> , <b>2007</b> , 304, 701-12	3.1	48
52	Inhibitory effects of Robo2 on nephrin: a crosstalk between positive and negative signals regulating podocyte structure. <i>Cell Reports</i> , <b>2012</b> , 2, 52-61	10.6	45
51	Reproducibility of the NEPTUNE descriptor-based scoring system on whole-slide images and histologic and ultrastructural digital images. <i>Modern Pathology</i> , <b>2016</b> , 29, 671-84	9.8	41
50	Identification of the glomerular podocyte as a target for growth hormone action. <i>Endocrinology</i> , <b>2007</b> , 148, 2045-55	4.8	40
49	CureGN Study Rationale, Design, and Methods: Establishing a Large Prospective Observational Study of Glomerular Disease. <i>American Journal of Kidney Diseases</i> , <b>2019</b> , 73, 218-229	7.4	39
48	Complete Remission in the Nephrotic Syndrome Study Network. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , <b>2016</b> , 11, 81-9	6.9	37
47	Signaling from the podocyte intercellular junction to the actin cytoskeleton. <i>Seminars in Nephrology</i> , <b>2012</b> , 32, 307-18	4.8	37
46	Podocyte-specific overexpression of GLUT1 surprisingly reduces mesangial matrix expansion in diabetic nephropathy in mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>2010</b> , 299, F91-8	4.3	35
45	Digital pathology imaging as a novel platform for standardization and globalization of quantitative nephropathology. <i>CKJ: Clinical Kidney Journal</i> , <b>2017</b> , 10, 176-187	4.5	34
44	An evolutionarily conserved mechanism for cAMP elicited axonal regeneration involves direct activation of the dual leucine zipper kinase DLK. <i>ELife</i> , <b>2016</b> , 5,	8.9	34
43	Podocytes: gaining a foothold. <i>Experimental Cell Research</i> , <b>2012</b> , 318, 955-63	4.2	30
42	Slit diaphragm protein Neph1 and its signaling: a novel therapeutic target for protection of podocytes against glomerular injury. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 9502-18	5.4	29
41	Deletion of von Hippel-Lindau in glomerular podocytes results in glomerular basement membrane thickening, ectopic subepithelial deposition of collagen $\alpha 1(\text{IV})$ , expression of neuroglobin, and proteinuria. <i>American Journal of Pathology</i> , <b>2010</b> , 177, 84-96	5.8	29
40	Podocyte-specific knockout of myosin 1e disrupts glomerular filtration. <i>American Journal of Physiology - Renal Physiology</i> , <b>2012</b> , 303, F1099-106	4.3	27
39	Slit diaphragm junctional complex and regulation of the cytoskeleton. <i>Nephron Experimental Nephrology</i> , <b>2007</b> , 106, e67-72		27
38	Caveolar structure and protein sorting are maintained in NIH 3T3 cells independent of glycosphingolipid depletion. <i>Archives of Biochemistry and Biophysics</i> , <b>2000</b> , 373, 83-90	4.1	26

37	Background strain and the differential susceptibility of podocyte-specific deletion of Myh9 on murine models of experimental glomerulosclerosis and HIV nephropathy. <i>PLoS ONE</i> , <b>2013</b> , 8, e67839	3.7	25
36	Post-translational processing and renal expression of mouse Indian hedgehog. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 8466-73	5.4	25
35	Crk1/2 and CrkL form a hetero-oligomer and functionally complement each other during podocyte morphogenesis. <i>Kidney International</i> , <b>2014</b> , 85, 1382-1394	9.9	24
34	Src family kinases directly regulate JIP1 module dynamics and activation. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 2431-41	4.8	24
33	Leucine Zipper-bearing Kinase promotes axon growth in mammalian central nervous system neurons. <i>Scientific Reports</i> , <b>2016</b> , 6, 31482	4.9	24
32	Clinical Characteristics and Treatment Patterns of Children and Adults With IgA Nephropathy or IgA Vasculitis: Findings From the CureGN Study. <i>Kidney International Reports</i> , <b>2018</b> , 3, 1373-1384	4.1	23
31	A mutation in the mouse Chd2 chromatin remodeling enzyme results in a complex renal phenotype. <i>Kidney and Blood Pressure Research</i> , <b>2008</b> , 31, 421-32	3.1	21
30	Differentially spliced isoforms of FAT1 are asymmetrically distributed within migrating cells. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 22823-33	5.4	21
29	Health-related quality of life in glomerular disease. <i>Kidney International</i> , <b>2019</b> , 95, 1209-1224	9.9	20
28	Podocytes require the engagement of cell surface heparan sulfate proteoglycans for adhesion to extracellular matrices. <i>Kidney International</i> , <b>2010</b> , 78, 1088-99	9.9	20
27	Randomized Clinical Trial Design to Assess Abatacept in Resistant Nephrotic Syndrome. <i>Kidney International Reports</i> , <b>2018</b> , 3, 115-121	4.1	18
26	SA gene expression in the proximal tubule of normotensive and hypertensive rats. <i>Hypertension</i> , <b>1996</b> , 27, 541-51	8.5	16
25	The kidney research national dialogue: gearing up to move forward. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , <b>2014</b> , 9, 1806-11	6.9	14
24	Reproducibility and Feasibility of Strategies for Morphologic Assessment of Renal Biopsies Using the Nephrotic Syndrome Study Network Digital Pathology Scoring System. <i>Archives of Pathology and Laboratory Medicine</i> , <b>2018</b> , 142, 613-625	5	13
23	Podocyte-specific deletion of NDST1, a key enzyme in the sulfation of heparan sulfate glycosaminoglycans, leads to abnormalities in podocyte organization in vivo. <i>Kidney International</i> , <b>2014</b> , 85, 307-18	9.9	13
22	Ultrastructural Characterization of Proteinuric Patients Predicts Clinical Outcomes. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2020</b> , 31, 841-854	12.7	13
21	Glomerular disease: looking beyond pathology. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , <b>2014</b> , 9, 1138-40	6.9	12
20	Myo1c is an unconventional myosin required for zebrafish glomerular development. <i>Kidney International</i> , <b>2013</b> , 84, 1154-65	9.9	12



19	Solution structure analysis of cytoplasmic domain of podocyte protein Neph1 using small/wide angle x-ray scattering (SWAXS). <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 9441-53	5.4	12
18	Imaging podocyte dynamics. <i>Nephron Experimental Nephrology</i> , <b>2006</b> , 103, e69-74		12
17	An efficient system for tissue-specific overexpression of transgenes in podocytes in vivo. <i>American Journal of Physiology - Renal Physiology</i> , <b>2005</b> , 289, F481-8	4.3	12
16	The motor protein Myo1c regulates transforming growth factor- $\beta$ signaling and fibrosis in podocytes. <i>Kidney International</i> , <b>2019</b> , 96, 139-158	9.9	10
15	Glomerular Diseases: Registries and Clinical Trials. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , <b>2016</b> , 11, 2234-2243	6.9	10
14	The longitudinal relationship between patient-reported outcomes and clinical characteristics among patients with focal segmental glomerulosclerosis in the Nephrotic Syndrome Study Network. <i>CKJ: Clinical Kidney Journal</i> , <b>2020</b> , 13, 597-606	4.5	9
13	Structural Analysis of the Myo1c and Neph1 Complex Provides Insight into the Intracellular Movement of Neph1. <i>Molecular and Cellular Biology</i> , <b>2016</b> , 36, 1639-54	4.8	9
12	Ablation of developing podocytes disrupts cellular interactions and nephrogenesis both inside and outside the glomerulus. <i>American Journal of Physiology - Renal Physiology</i> , <b>2008</b> , 295, F1790-8	4.3	7
11	ARF6 mediates nephrin tyrosine phosphorylation-induced podocyte cellular dynamics. <i>PLoS ONE</i> , <b>2017</b> , 12, e0184575	3.7	6
10	Glomerular disease workshop. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2005</b> , 16, 3472-6	12.7	5
9	Longitudinal Changes in Health-Related Quality of Life in Primary Glomerular Disease: Results From the CureGN Study. <i>Kidney International Reports</i> , <b>2020</b> , 5, 1679-1689	4.1	4
8	SHROOM3, the gene associated with chronic kidney disease, affects the podocyte structure. <i>Scientific Reports</i> , <b>2020</b> , 10, 21103	4.9	3
7	Persistent Disease Activity in Patients With Long-Standing Glomerular Disease. <i>Kidney International Reports</i> , <b>2020</b> , 5, 860-871	4.1	2
6	Ret is critical for podocyte survival following glomerular injury in vivo. <i>American Journal of Physiology - Renal Physiology</i> , <b>2015</b> , 308, F774-83	4.3	2
5	APOL1 genotype-associated morphologic changes among patients with focal segmental glomerulosclerosis. <i>Pediatric Nephrology</i> , <b>2021</b> , 36, 2747-2757	3.2	2
4	Phosphorylation of slit diaphragm proteins NEPHRIN and NEPH1 upon binding of HGF promotes podocyte repair. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101079	5.4	2
3	Quantification of Glomerular Structural Lesions: Associations With Clinical Outcomes and Transcriptomic Profiles in Nephrotic Syndrome. <i>American Journal of Kidney Diseases</i> , <b>2021</b> ,	7.4	1
2	Podocyte-specific Vhlh loss demonstrates role for hypoxia-inducible transcription factors (HIFs) in glomerular disease pathogenesis. <i>FASEB Journal</i> , <b>2007</b> , 21, A504	0.9	

1 Lack of N-Sulfation of Podocyte Cell Surface Heparan Sulfate Glycosaminoglycans Leads to Abnormalities in Podocyte Organization, Adhesion, and Migration. *FASEB Journal*, **2012**, 26, 906.1

0.9