

# Lawrence B Holzman

## List of Publications by Year in descending order

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110  
papers

10,381  
citations

28274

55  
h-index

32842

100  
g-index

114  
all docs

114  
docs citations

114  
times ranked

9240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Podocyte Depletion Causes Glomerulosclerosis. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 2941-2952.	6.1	649
2	Positional cloning uncovers mutations in <i>PLCE1</i> responsible for a nephrotic syndrome variant that may be reversible. <i>Nature Genetics</i> , 2006, 38, 1397-1405.	21.4	510
3	Podocin, a raft-associated component of the glomerular slit diaphragm, interacts with CD2AP and nephrin. <i>Journal of Clinical Investigation</i> , 2001, 108, 1621-1629.	8.2	491
4	mTORC1 activation in podocytes is a critical step in the development of diabetic nephropathy in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 2181-2196.	8.2	462
5	Wnt/ $\beta$ -Catenin Signaling Promotes Podocyte Dysfunction and Albuminuria. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 1997-2008.	6.1	356
6	Podocyte depletion and glomerulosclerosis have a direct relationship in the PAN-treated rat. <i>Kidney International</i> , 2001, 60, 957-968.	5.2	340
7	Podocyte-Selective Deletion of <i>Dicer</i> Induces Proteinuria and Glomerulosclerosis. <i>Journal of the American Society of Nephrology: JASN</i> , 2008, 19, 2159-2169.	6.1	332
8	Nephrin ectodomain engagement results in Src kinase activation, nephrin phosphorylation, Nck recruitment, and actin polymerization. <i>Journal of Clinical Investigation</i> , 2006, 116, 1346-1359.	8.2	282
9	Podocyte-specific expression of cre recombinase in transgenic mice. <i>Genesis</i> , 2003, 35, 39-42.	1.6	275
10	Nephrin localizes to the slit pore of the glomerular epithelial cell. <i>Kidney International</i> , 1999, 56, 1481-1491.	5.2	268
11	Design of the Nephrotic Syndrome Study Network (NEPTUNE) to evaluate primary glomerular nephropathy by a multidisciplinary approach. <i>Kidney International</i> , 2013, 83, 749-756.	5.2	268
12	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> , 1999, 19, 7519-7528.	2.3	239
13	Fyn Binds to and Phosphorylates the Kidney Slit Diaphragm Component Nephrin. <i>Journal of Biological Chemistry</i> , 2003, 278, 20716-20723.	3.4	209
14	Re-expression of the developmental gene Pax-2 during experimental acute tubular necrosis in mice. <i>Kidney International</i> , 1999, 56, 1423-1431.	5.2	176
15	Protocadherin FAT1 binds Ena/VASP proteins and is necessary for actin dynamics and cell polarization. <i>EMBO Journal</i> , 2004, 23, 3769-3779.	7.8	168
16	Podocytes Populate Cellular Crescents in a Murine Model of Inflammatory Glomerulonephritis. <i>Journal of the American Society of Nephrology: JASN</i> , 2004, 15, 61-67.	6.1	166
17	Wnt/ $\beta$ -Catenin Pathway in Podocytes Integrates Cell Adhesion, Differentiation, and Survival. <i>Journal of Biological Chemistry</i> , 2011, 286, 26003-26015.	3.4	166
18	$\beta$ 1 integrin expression by podocytes is required to maintain glomerular structural integrity. <i>Developmental Biology</i> , 2008, 316, 288-301.	2.0	161

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19	Nephrin and Neph1 Co-localize at the Podocyte Foot Process Intercellular Junction and Form cis Hetero-oligomers. <i>Journal of Biological Chemistry</i> , 2003, 278, 19266-19271.	3.4	157
20	Nephritogenic mAb 5-1-6 is directed at the extracellular domain of rat nephrin. <i>Journal of Clinical Investigation</i> , 1999, 104, 1559-1566.	8.2	154
21	Disruption of Glomerular Basement Membrane Charge through Podocyte-Specific Mutation of Agrin Does Not Alter Glomerular Permselectivity. <i>American Journal of Pathology</i> , 2007, 171, 139-152.	3.8	153
22	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> , 2006, 17, 1334-1344.	6.1	137
23	Role of dynamin, synaptojanin, and endophilin in podocyte foot processes. <i>Journal of Clinical Investigation</i> , 2012, 122, 4401-4411.	8.2	137
24	Altered podocyte structure in GLEPP1 (Ptpro)-deficient mice associated with hypertension and low glomerular filtration rate. <i>Journal of Clinical Investigation</i> , 2000, 106, 1281-1290.	8.2	135
25	Neph1 Cooperates with Nephrin To Transduce a Signal That Induces Actin Polymerization. <i>Molecular and Cellular Biology</i> , 2007, 27, 8698-8712.	2.3	130
26	Stable expression of nephrin and localization to cell-cell contacts in novel murine podocyte cell lines. <i>Kidney International</i> , 2004, 66, 91-101.	5.2	125
27	Divergent functions of the Rho GTPases Rac1 and Cdc42 in podocyte injury. <i>Kidney International</i> , 2013, 84, 920-930.	5.2	125
28	Dual Leucine Zipper-bearing Kinase (DLK) Activates p46SAPK and p38 but Not ERK2. <i>Journal of Biological Chemistry</i> , 1996, 271, 24788-24793.	3.4	124
29	Podocyte-associated talin1 is critical for glomerular filtration barrier maintenance. <i>Journal of Clinical Investigation</i> , 2014, 124, 1098-1113.	8.2	122
30	A reassessment of soluble urokinase-type plasminogen activator receptor in glomerular disease. <i>Kidney International</i> , 2015, 87, 564-574.	5.2	111
31	Inhibition of Podocyte FAK Protects against Proteinuria and Foot Process Effacement. <i>Journal of the American Society of Nephrology: JASN</i> , 2010, 21, 1145-1156.	6.1	107
32	The inducible deletion of Drosha and microRNAs in mature podocytes results in a collapsing glomerulopathy. <i>Kidney International</i> , 2011, 80, 719-730.	5.2	105
33	FAT1 mutations cause a glomerulotubular nephropathy. <i>Nature Communications</i> , 2016, 7, 10822.	12.8	99
34	Actin-depolymerizing Factor Cofilin-1 Is Necessary in Maintaining Mature Podocyte Architecture. <i>Journal of Biological Chemistry</i> , 2010, 285, 22676-22688.	3.4	97
35	Two Gene Fragments that Direct Podocyte-Specific Expression in Transgenic Mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2002, 13, 1561-1567.	6.1	96
36	Nephrin Preserves Podocyte Viability and Glomerular Structure and Function in Adult Kidneys. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 2361-2377.	6.1	93

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37	The Mixed Lineage Kinase DLK Utilizes MKK7 and Not MKK4 as Substrate. <i>Journal of Biological Chemistry</i> , 1999, 274, 10195-10202.	3.4	92
38	Crkl/2-dependent signaling is necessary for podocyte foot process spreading in mouse models of glomerular disease. <i>Journal of Clinical Investigation</i> , 2012, 122, 674-692.	8.2	92
39	Hepatocyte growth factor signaling ameliorates podocyte injury and proteinuria. <i>Kidney International</i> , 2010, 77, 962-973.	5.2	87
40	Loss of heparan sulfate glycosaminoglycan assembly in podocytes does not lead to proteinuria. <i>Kidney International</i> , 2008, 74, 289-299.	5.2	83
41	Clinical impact of research on the podocyte slit diaphragm. <i>Nature Clinical Practice Nephrology</i> , 2006, 2, 271-282.	2.0	81
42	Ischemic Injury to Kidney Induces Glomerular Podocyte Effacement and Dissociation of Slit Diaphragm Proteins Neph1 and ZO-1. <i>Journal of Biological Chemistry</i> , 2008, 283, 35579-35589.	3.4	80
43	Inducible Podocyte-Specific Gene Expression in Transgenic Mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2003, 14, 1998-2003.	6.1	76
44	Phosphorylation of Pax2 by the c-Jun N-terminal Kinase and Enhanced Pax2-dependent Transcription Activation. <i>Journal of Biological Chemistry</i> , 2002, 277, 1217-1222.	3.4	75
45	Podocyte-Specific Deletion of Myh9 Encoding Nonmuscle Myosin Heavy Chain 2A Predisposes Mice to Glomerulopathy. <i>Molecular and Cellular Biology</i> , 2011, 31, 2162-2170.	2.3	74
46	Recruitment of JNK to JIP1 and JNK-dependent JIP1 Phosphorylation Regulates JNK Module Dynamics and Activation. <i>Journal of Biological Chemistry</i> , 2003, 278, 28694-28702.	3.4	70
47	APOL1 Null Alleles from a Rural Village in India Do Not Correlate with Glomerulosclerosis. <i>PLoS ONE</i> , 2012, 7, e51546.	2.5	70
48	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> , 1996, 271, 16888-16896.	3.4	69
49	CureGN Study Rationale, Design, and Methods: Establishing a Large Prospective Observational Study of Glomerular Disease. <i>American Journal of Kidney Diseases</i> , 2019, 73, 218-229.	1.9	68
50	Evaluation of a New Tool for Exploring Podocyte Biology. <i>Journal of the American Society of Nephrology: JASN</i> , 2000, 11, 2306-2314.	6.1	66
51	GLUT-1 reduces hypoxia-induced apoptosis and JNK pathway activation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 278, E958-E966.	3.5	65
52	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> , 2000, 275, 7273-7279.	3.4	64
53	Cloning and Expression of the Rat Nephin Homolog. <i>American Journal of Pathology</i> , 1999, 155, 907-913.	3.8	61
54	The podocyte-specific inactivation of Lmx1b, Ldb1 and E2a yields new insight into a transcriptional network in podocytes. <i>Developmental Biology</i> , 2007, 304, 701-712.	2.0	60

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55	An evolutionarily conserved mechanism for cAMP elicited axonal regeneration involves direct activation of the dual leucine zipper kinase DLK. <i>ELife</i> , 2016, 5, .	6.0	59
56	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> , 2011, 286, 39933-39944.	3.4	58
57	Reproducibility of the NEPTUNE descriptor-based scoring system on whole-slide images and histologic and ultrastructural digital images. <i>Modern Pathology</i> , 2016, 29, 671-684.	5.5	56
58	Inhibitory Effects of Robo2 on Nephrin: A Crosstalk between Positive and Negative Signals Regulating Podocyte Structure. <i>Cell Reports</i> , 2012, 2, 52-61.	6.4	53
59	Complete Remission in the Nephrotic Syndrome Study Network. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2016, 11, 81-89.	4.5	53
60	Identification of the Glomerular Podocyte as a Target for Growth Hormone Action. <i>Endocrinology</i> , 2007, 148, 2045-2055.	2.8	47
61	Digital pathology imaging as a novel platform for standardization and globalization of quantitative nephropathology. <i>CKJ: Clinical Kidney Journal</i> , 2017, 10, 176-187.	2.9	45
62	Podocyte-specific overexpression of GLUT1 surprisingly reduces mesangial matrix expansion in diabetic nephropathy in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 299, F91-F98.	2.7	43
63	Signaling From the Podocyte Intercellular Junction to the Actin Cytoskeleton. <i>Seminars in Nephrology</i> , 2012, 32, 307-318.	1.6	42
64	Podocyte-specific knockout of myosin 1e disrupts glomerular filtration. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, F1099-F1106.	2.7	39
65	Slit Diaphragm Protein Neph1 and Its Signaling. <i>Journal of Biological Chemistry</i> , 2014, 289, 9502-9518.	3.4	39
66	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> , 2018, 3, 1373-1384.	0.8	39
67	Health-related quality of life in glomerular disease. <i>Kidney International</i> , 2019, 95, 1209-1224.	5.2	38
68	Crk1/2 and CrkL form a hetero-oligomer and functionally complement each other during podocyte morphogenesis. <i>Kidney International</i> , 2014, 85, 1382-1394.	5.2	37
69	Podocytes: Gaining a foothold. <i>Experimental Cell Research</i> , 2012, 318, 955-963.	2.6	34
70	Structural Analysis of the Myo1c and Neph1 Complex Provides Insight into the Intracellular Movement of Neph1. <i>Molecular and Cellular Biology</i> , 2016, 36, 1639-1654.	2.3	34
71	Leucine Zipper-bearing Kinase promotes axon growth in mammalian central nervous system neurons. <i>Scientific Reports</i> , 2016, 6, 31482.	3.3	32
72	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> , 2010, 177, 84-96.	3.8	30

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73	Differentially Spliced Isoforms of FAT1 Are Asymmetrically Distributed within Migrating Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 22823-22833.	3.4	29
74	Slit Diaphragm Junctional Complex and Regulation of the Cytoskeleton. <i>Nephron Experimental Nephrology</i> , 2007, 106, e67-e72.	2.2	29
75	Ultrastructural Characterization of Proteinuric Patients Predicts Clinical Outcomes. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 841-854.	6.1	29
76	Caveolar Structure and Protein Sorting Are Maintained in NIH 3T3 Cells Independent of Glycosphingolipid Depletion. <i>Archives of Biochemistry and Biophysics</i> , 2000, 373, 83-90.	3.0	28
77	Src Family Kinases Directly Regulate JIP1 Module Dynamics and Activation. <i>Molecular and Cellular Biology</i> , 2007, 27, 2431-2441.	2.3	27
78	Post-translational Processing and Renal Expression of Mouse Indian Hedgehog. <i>Journal of Biological Chemistry</i> , 1997, 272, 8466-8473.	3.4	26
79	A Mutation in the Mouse Chd2 Chromatin Remodeling Enzyme Results in a Complex Renal Phenotype. <i>Kidney and Blood Pressure Research</i> , 2008, 31, 421-432.	2.0	25
80	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> , 2013, 8, e67839.	2.5	25
81	Podocytes require the engagement of cell surface heparan sulfate proteoglycans for adhesion to extracellular matrices. <i>Kidney International</i> , 2010, 78, 1088-1099.	5.2	23
82	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> , 2018, 142, 613-625.	2.5	21
83	Randomized Clinical Trial Design to Assess Abatacept in Resistant Nephrotic Syndrome. <i>Kidney International Reports</i> , 2018, 3, 115-121.	0.8	21
84	The motor protein Myo1c regulates transforming growth factor- $\beta$ signaling and fibrosis in podocytes. <i>Kidney International</i> , 2019, 96, 139-158.	5.2	20
85	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> , 2014, 85, 307-318.	5.2	19
86	The Kidney Research National Dialogue. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2014, 9, 1806-1811.	4.5	18
87	SA Gene Expression in the Proximal Tubule of Normotensive and Hypertensive Rats. <i>Hypertension</i> , 1996, 27, 541-545.	2.7	18
88	Longitudinal Changes in Health-Related Quality of Life in Primary Glomerular Disease: Results From the CureGN Study. <i>Kidney International Reports</i> , 2020, 5, 1679-1689.	0.8	17
89	Kidney Biopsy Features Most Predictive of Clinical Outcomes in the Spectrum of Minimal Change Disease and Focal Segmental Glomerulosclerosis. <i>Journal of the American Society of Nephrology: JASN</i> , 2022, 33, 1411-1426.	6.1	16
90	Myo1c is an unconventional myosin required for zebrafish glomerular development. <i>Kidney International</i> , 2013, 84, 1154-1165.	5.2	14

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91	Glomerular Disease. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2014, 9, 1138-1140.	4.5	14
92	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> , 2020, 13, 597-606.	2.9	14
93	Solution Structure Analysis of Cytoplasmic Domain of Podocyte Protein Neph1 Using Small/Wide Angle X-ray Scattering (SWAXS). <i>Journal of Biological Chemistry</i> , 2012, 287, 9441-9453.	3.4	13
94	Quantification of Glomerular Structural Lesions: Associations With Clinical Outcomes and Transcriptomic Profiles in Nephrotic Syndrome. <i>American Journal of Kidney Diseases</i> , 2022, 79, 807-819.e1.	1.9	13
95	An efficient system for tissue-specific overexpression of transgenes in podocytes in vivo. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 289, F481-F488.	2.7	12
96	Imaging Podocyte Dynamics. <i>Nephron Experimental Nephrology</i> , 2006, 103, e69-e74.	2.2	12
97	Glomerular Diseases: Registries and Clinical Trials. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2016, 11, 2234-2243.	4.5	11
98	SHROOM3, the gene associated with chronic kidney disease, affects the podocyte structure. <i>Scientific Reports</i> , 2020, 10, 21103.	3.3	11
99	Ablation of developing podocytes disrupts cellular interactions and nephrogenesis both inside and outside the glomerulus. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 295, F1790-F1798.	2.7	9
100	ARF6 mediates nephrin tyrosine phosphorylation-induced podocyte cellular dynamics. <i>PLoS ONE</i> , 2017, 12, e0184575.	2.5	8
101	Glomerular Disease Workshop. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 3472-3476.	6.1	6
102	Phosphorylation of slit diaphragm proteins NEPHRIN and NEPH1 upon binding of HGF promotes podocyte repair. <i>Journal of Biological Chemistry</i> , 2021, 297, 101079.	3.4	4
103	APOL1 genotype-associated morphologic changes among patients with focal segmental glomerulosclerosis. <i>Pediatric Nephrology</i> , 2021, 36, 2747-2757.	1.7	3
104	Ret is critical for podocyte survival following glomerular injury in vivo. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, F774-F783.	2.7	2
105	Persistent Disease Activity in Patients With Long-Standing Glomerular Disease. <i>Kidney International Reports</i> , 2020, 5, 860-871.	0.8	2
106	Initial Insight on the Determinants of Podocyte Polarity. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 683-685.	6.1	1
107	Nephritogenic mAb 5-1-6 is directed at the extracellular domain of rat nephrin. <i>Journal of Clinical Investigation</i> , 2000, 105, 125-125.	8.2	0
108	Podocyte-specific Vhlh loss demonstrates role for hypoxia-inducible transcription factors (HIFs) in glomerular disease pathogenesis. <i>FASEB Journal</i> , 2007, 21, A504.	0.5	0

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109	Lack of Nâ€Sulfation of Podocyte Cell Surface Heparan Sulfate Glycosaminoglycans Leads to Abnormalities in Podocyte Organization, Adhesion, and Migration. FASEB Journal, 2012, 26, 906.1.	0.5	0
110	Podocyte-associated talin1 is critical for glomerular filtration barrier maintenance. Journal of Clinical Investigation, 2015, 125, 882-882.	8.2	0