Benjamin D Humphreys

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104 papers	8,913 citations	46 h-index	94 g-index
130 ext. papers	11,472 ext. citations	10.4 avg, IF	6.75 L-index

#	Paper	IF	Citations
104	Fate tracing reveals the pericyte and not epithelial origin of myofibroblasts in kidney fibrosis. *American Journal of Pathology*, **2010**, 176, 85-97	5.8	1072
103	Intrinsic epithelial cells repair the kidney after injury. *Cell Stem Cell*, **2008**, 2, 284-91	18	651
102	Perivascular Gli1+ progenitors are key contributors to injury-induced organ fibrosis. *Cell Stem Cell*, **2015**, 16, 51-66	18	559
101	Kidney injury molecule-1 is a phosphatidylserine receptor that confers a phagocytic phenotype on epithelial cells. *Journal of Clinical Investigation*, **2008**, 118, 1657-68	15.9	508
100	Mechanisms of Renal Fibrosis. *Annual Review of Physiology*, **2018**, 80, 309-326	23.1	325
99	Differentiated kidney epithelial cells repair injured proximal tubule. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 1527-32	11.5	287
98	Mesenchymal stem cells in acute kidney injury. *Annual Review of Medicine*, **2008**, 59, 311-25	17.4	268
97	Repair of injured proximal tubule does not involve specialized progenitors. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 9226-31	11.5	261
96	Comparative Analysis and Refinement of Human PSC-Derived Kidney Organoid Differentiation with Single-Cell Transcriptomics. *Cell Stem Cell*, **2018**, 23, 869-881.e8	18	252
95	Advantages of Single-Nucleus over Single-Cell RNA Sequencing of Adult Kidney: Rare Cell Types and Novel Cell States Revealed in Fibrosis. *Journal of the American Society of Nephrology: JASN*, **2019**, 30, 23-32	12.7	225
94	Chronic epithelial kidney injury molecule-1 expression causes murine kidney fibrosis. *Journal of Clinical Investigation*, **2013**, 123, 4023-35	15.9	207
93	Adventitial MSC-like Cells Are Progenitors of Vascular Smooth Muscle Cells and Drive Vascular Calcification in Chronic Kidney Disease. *Cell Stem Cell*, **2016**, 19, 628-642	18	189
92	Mesenchymal Stem Cells in Fibrotic Disease. *Cell Stem Cell*, **2017**, 21, 166-177	18	186
91	Single-Cell Transcriptomics of a Human Kidney Allograft Biopsy Specimen Defines a Diverse Inflammatory Response. *Journal of the American Society of Nephrology: JASN*, **2018**, 29, 2069-2080	12.7	163
90	Understanding the origin, activation and regulation of matrix-producing myofibroblasts for treatment of fibrotic disease. *Journal of Pathology*, **2013**, 231, 273-89	9.4	153
89	Gemcitabine-associated thrombotic microangiopathy. *Cancer*, **2004**, 100, 2664-70	6.4	148
88	Renal injury is a third hit promoting rapid development of adult polycystic kidney disease. *Human Molecular Genetics*, **2009**, 18, 2523-31	5.6	146

87	Hedgehog-Gli pathway activation during kidney fibrosis. *American Journal of Pathology*, **2012**, 180, 1441-58	5.8	145
86	The single-cell transcriptomic landscape of early human diabetic nephropathy. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 19619-19625	11.5	135
85	Renal failure associated with cancer and its treatment: an update. *Journal of the American Society of Nephrology: JASN*, **2005**, 16, 151-61	12.7	134
84	Gli1 Mesenchymal Stromal Cells Are a Key Driver of Bone Marrow Fibrosis and an Important Cellular Therapeutic Target. *Cell Stem Cell*, **2017**, 20, 785-800.e8	18	132
83	Wnt4/β-catenin signaling in medullary kidney myofibroblasts. *Journal of the American Society of Nephrology: JASN*, **2013**, 24, 1399-412	12.7	123
82	Clinical Use of the Urine Biomarker [TIMP-2] × [IGFBP7] for Acute Kidney Injury Risk Assessment. *American Journal of Kidney Diseases*, **2016**, 68, 19-28	7.4	119
81	Cell-specific translational profiling in acute kidney injury. *Journal of Clinical Investigation*, **2014**, 124, 1242-54	15.9	115
80	Pharmacological GLI2 inhibition prevents myofibroblast cell-cycle progression and reduces kidney fibrosis. *Journal of Clinical Investigation*, **2015**, 125, 2935-51	15.9	111
79	Sox9 Activation Highlights a Cellular Pathway of Renal Repair in the Acutely Injured Mammalian Kidney. *Cell Reports*, **2015**, 12, 1325-38	10.6	103
78	Paracrine Wnt1 Drives Interstitial Fibrosis without Inflammation by Tubulointerstitial Cross-Talk. *Journal of the American Society of Nephrology: JASN*, **2016**, 27, 781-90	12.7	86
77	Fluorescence microangiography for quantitative assessment of peritubular capillary changes after AKI in mice. *Journal of the American Society of Nephrology: JASN*, **2014**, 25, 1924-31	12.7	86
76	Origin of new cells in the adult kidney: results from genetic labeling techniques. *Kidney International*, **2011**, 79, 494-501	9.9	84
75	Gli1 Pericyte Loss Induces Capillary Rarefaction and Proximal Tubular Injury. *Journal of the American Society of Nephrology: JASN*, **2017**, 28, 776-784	12.7	82
74	Cell profiling of mouse acute kidney injury reveals conserved cellular responses to injury. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 15874-15883	11.5	79
73	Kidney pericytes: roles in regeneration and fibrosis. *Seminars in Nephrology*, **2014**, 34, 374-83	4.8	78
72	Cardio-Oncology: How New Targeted Cancer Therapies and Precision Medicine Can Inform Cardiovascular Discovery. *Circulation*, **2015**, 132, 2248-58	16.7	75
71	CDK4/6 inhibition induces epithelial cell cycle arrest and ameliorates acute kidney injury. *American Journal of Physiology - Renal Physiology*, **2014**, 306, F379-88	4.3	72
70	Cellular plasticity in kidney injury and repair. *Nature Reviews Nephrology*, **2017**, 13, 39-46	14.9	70

69	Silencing of microRNA-132 reduces renal fibrosis by selectively inhibiting myofibroblast proliferation. *Kidney International*, **2016**, 89, 1268-80	9.9	70
68	ADAM17 substrate release in proximal tubule drives kidney fibrosis. *JCI Insight*, **2016**, 1,	9.9	68
67	Development and Validation of a Risk Prediction Model for Acute Kidney Injury After the First Course of Cisplatin. *Journal of Clinical Oncology*, **2018**, 36, 682-688	2.2	66
66	Targeting Endogenous Repair Pathways after AKI. *Journal of the American Society of Nephrology: JASN*, **2016**, 27, 990-8	12.7	60
65	Who regenerates the kidney tubule?. *Nephrology Dialysis Transplantation*, **2015**, 30, 903-10	4.3	57
64	Translational profiles of medullary myofibroblasts during kidney fibrosis. *Journal of the American Society of Nephrology: JASN*, **2014**, 25, 1979-90	12.7	52
63	Trans-ethnic kidney function association study reveals putative causal genes and effects on kidney-specific disease aetiologies. *Nature Communications*, **2019**, 10, 29	17.4	51
62	The contribution of adult stem cells to renal repair. *Nephrologie Et Therapeutique*, **2007**, 3, 3-10	0.6	49
61	FOXM1 drives proximal tubule proliferation during repair from acute ischemic kidney injury. *Journal of Clinical Investigation*, **2019**, 129, 5501-5517	15.9	49
60	The promise of single-cell RNA sequencing for kidney disease investigation. *Kidney International*, **2017**, 92, 1334-1342	9.9	47
59	Parabiosis and single-cell RNA sequencing reveal a limited contribution of monocytes to myofibroblasts in kidney fibrosis. *JCI Insight*, **2018**, 3,	9.9	46
58	Single cell transcriptional and chromatin accessibility profiling redefine cellular heterogeneity in the adult human kidney. *Nature Communications*, **2021**, 12, 2190	17.4	44
57	(Re)Building a Kidney. *Journal of the American Society of Nephrology: JASN*, **2017**, 28, 1370-1378	12.7	42
56	Rapid development of hypertension by sorafenib: toxicity or target?. *Clinical Cancer Research*, **2009**, 15, 5947-9	12.9	42
55	Acetaminophen-induced anion gap metabolic acidosis and 5-oxoprolinuria (pyroglutamic aciduria) acquired in hospital. *American Journal of Kidney Diseases*, **2005**, 46, 143-6	7.4	40
54	Rationale of mesenchymal stem cell therapy in kidney injury. *Nephron Clinical Practice*, **2014**, 127, 75-80		39
53	Matrix Producing Cells in Chronic Kidney Disease: Origin, Regulation, and Activation. *Current Pathobiology Reports*, **2013**, 1, 301	2	32
52	Controversies on the origin of proliferating epithelial cells after kidney injury. *Pediatric Nephrology*, **2014**, 29, 673-9	3.2	31

51	Discovery of new glomerular disease-relevant genes by translational profiling of podocytes in vivo. *Kidney International*, **2014**, 86, 1116-29	9.9	30
50	Pharmacological and genetic depletion of fibrinogen protects from kidney fibrosis. *American Journal of Physiology - Renal Physiology*, **2014**, 307, F471-84	4.3	28
49	Human Pluripotent Stem Cell-Derived Kidney Organoids with Improved Collecting Duct Maturation and Injury Modeling. *Cell Reports*, **2020**, 33, 108514	10.6	28
48	Proximal Tubule Translational Profiling during Kidney Fibrosis Reveals Proinflammatory and Long Noncoding RNA Expression Patterns with Sexual Dimorphism. *Journal of the American Society of Nephrology: JASN*, **2020**, 31, 23-38	12.7	27
47	Bringing Renal Biopsy Interpretation Into the Molecular Age With Single-Cell RNA Sequencing. *Seminars in Nephrology*, **2018**, 38, 31-39	4.8	27
46	Overcoming Translational Barriers in Acute Kidney Injury: A Report from an NIDDK Workshop. *Clinical Journal of the American Society of Nephrology: CJASN*, **2018**, 13, 1113-1123	6.9	26
45	Graft immaturity and safety concerns in transplanted human kidney organoids. *Experimental and Molecular Medicine*, **2019**, 51, 1-13	12.8	26
44	Mammalian Target of Rapamycin Mediates Kidney Injury Molecule 1-Dependent Tubule Injury in a Surrogate Model. *Journal of the American Society of Nephrology: JASN*, **2016**, 27, 1943-57	12.7	25
43	Lineage-tracing methods and the kidney. *Kidney International*, **2014**, 86, 481-8	9.9	24
42	Harnessing Expressed Single Nucleotide Variation and Single Cell RNA Sequencing To Define Immune Cell Chimerism in the Rejecting Kidney Transplant. *Journal of the American Society of Nephrology: JASN*, **2020**, 31, 1977-1986	12.7	24
41	Efficient Gene Transfer to Kidney Mesenchymal Cells Using a Synthetic Adeno-Associated Viral Vector. *Journal of the American Society of Nephrology: JASN*, **2018**, 29, 2287-2297	12.7	20
40	Gene Editing: Powerful New Tools for Nephrology Research and Therapy. *Journal of the American Society of Nephrology: JASN*, **2016**, 27, 2940-2947	12.7	18
39	Fibrotic Changes Mediating Acute Kidney Injury to Chronic Kidney Disease Transition. *Nephron*, **2017**, 137, 264-267	3.3	16
38	SARS-CoV-2 in the kidney: bystander or culprit?. *Nature Reviews Nephrology*, **2020**, 16, 703-704	14.9	16
37	Single-Nucleus RNA-Sequencing Profiling of Mouse Lung. Reduced Dissociation Bias and Improved Rare Cell-Type Detection Compared with Single-Cell RNA Sequencing. *American Journal of Respiratory Cell and Molecular Biology*, **2020**, 63, 739-747	5.7	15
36	Kidney and organoid single-cell transcriptomics: the end of the beginning. *Pediatric Nephrology*, **2020**, 35, 191-197	3.2	15
35	Wnt signaling in kidney tubulointerstitium during disease. *Histology and Histopathology*, **2015**, 30, 163-71	1.4	14
34	Endothelial marker-expressing stromal cells are critical for kidney formation. *American Journal of Physiology - Renal Physiology*, **2017**, 313, F611-F620	4.3	13

33	Single Cell Sequencing and Kidney Organoids Generated from Pluripotent Stem Cells. *Clinical Journal of the American Society of Nephrology: CJASN*, **2020**, 15, 550-556	6.9	13
32	Multi-omics integration in the age of million single-cell data. *Nature Reviews Nephrology*, **2021**, 17, 710-724	24.9	11
31	The ten barriers for translation of animal data on AKI to the clinical setting. *Intensive Care Medicine*, **2017**, 43, 898-900	14.5	10
30	Single-cell Transcriptomics and Solid Organ Transplantation. *Transplantation*, **2019**, 103, 1776-1782	1.8	10
29	Targeting Phospholipase D4 Attenuates Kidney Fibrosis. *Journal of the American Society of Nephrology: JASN*, **2017**, 28, 3579-3589	12.7	9
28	Genetic tracing of the epithelial lineage during mammalian kidney repair. *Kidney International Supplements*, **2011**, 1, 83-86	6.3	8
27	Intratubular epithelial-mesenchymal transition and tubular atrophy after kidney injury in mice. *American Journal of Physiology - Renal Physiology*, **2020**, 319, F579-F591	4.3	8
26	Single-cell genomics and gene editing: implications for nephrology. *Nature Reviews Nephrology*, **2019**, 15, 63-64	14.9	8
25	Mapping kidney cellular complexity. *Science*, **2018**, 360, 709-710	33.3	8
24	Pharmacological inhibition of ataxia-telangiectasia mutated exacerbates acute kidney injury by activating p53 signaling in mice. *Scientific Reports*, **2020**, 10, 4441	4.9	7
23	Minimal-change nephrotic syndrome in a hematopoietic stem-cell transplant recipient. *Nature Clinical Practice Nephrology*, **2006**, 2, 535-9; quiz 540		7
22	Spatially Resolved Transcriptomic Analysis of Acute Kidney Injury in a Female Murine Model. *Journal of the American Society of Nephrology: JASN*, **2021**,	12.7	7
21	Circulating testican-2 is a podocyte-derived marker of kidney health. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 25026-25035	11.5	7
20	Meis1 is specifically upregulated in kidney myofibroblasts during aging and injury but is not required for kidney homeostasis or fibrotic response. *American Journal of Physiology - Renal Physiology*, **2018**, 315, F275-F290	4.3	6
19	A conditionally immortalized Gli1-positive kidney mesenchymal cell line models myofibroblast transition. *American Journal of Physiology - Renal Physiology*, **2019**, 316, F63-F75	4.3	6
18	Bioprinting better kidney organoids. *Nature Materials*, **2021**, 20, 128-130	27	6
17	Circulating Plasma Biomarkers in Biopsy-Confirmed Kidney Disease. *Clinical Journal of the American Society of Nephrology: CJASN*, **2021**,	6.9	5
16	Recent Insights into Kidney Injury and Repair from Transcriptomic Analyses. *Nephron*, **2019**, 143, 162-165	3.3	4

15	Cathepsin S and Protease-Activated Receptor-2 Drive Alloimmunity and Immune Regulation in Kidney Allograft Rejection. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 398	5.7	4
14	Epigenomics and the kidney. *Current Opinion in Nephrology and Hypertension*, **2020**, 29, 280-285	3.5	4
13	Regrow or Repair: An Update on Potential Regenerative Therapies for the Kidney. *Journal of the American Society of Nephrology: JASN*, **2021**,	12.7	4
12	Cell profiling of mouse acute kidney injury reveals conserved cellular responses to injury		3
11	Single cell transcriptional and chromatin accessibility profiling redefine cellular heterogeneity in the adult human kidney		3
10	Single Cell Technologies: Beyond Microfluidics.. *Kidney360*, **2021**, 2, 1196-1204	1.8	2
9	AuthorsSReply. *Journal of the American Society of Nephrology: JASN*, **2019**, 30, 714	12.7	1
8	Cre/loxP approach-mediated downregulation of Pik3c3 inhibits the hypertrophic growth of renal proximal tubule cells. *Journal of Cellular Physiology*, **2020**, 235, 9958-9973	7	1
7	Introduction: stem cells and kidney regeneration. *Seminars in Nephrology*, **2014**, 34, 349-50	4.8	1
6	Cumulative DNA damage by repeated low-dose cisplatin injection promotes the transition of acute to chronic kidney injury in mice. *Scientific Reports*, **2021**, 11, 20920	4.9	1
5	The Single Cell Transcriptomic Landscape of Early Human Diabetic Nephropathy		1
4	Recent advances in lineage tracing for the kidney. *Kidney International*, **2021**, 100, 1179-1184	9.9	1
3	Cadherin-11, Sparc-related modular calcium binding protein-2, and Pigment epithelium-derived factor are promising non-invasive biomarkers of kidney fibrosis. *Kidney International*, **2021**, 100, 672-683	9.9	1
2	A Transgenic Cre Mouse Line for the Study of Kidney Pericytes and Perivascular Fibroblasts. *FASEB Journal*, **2013**, 27, 897.2	0.9	
1	Surveying the human single-cell landscape. *Kidney International*, **2020**, 98, 1385-1387	9.9	