Benjamin D Humphreys

List of Publications by Year
in descending order

116 papers	13,312 citations	36303 51 h-index	24982 109 g-index
130 all docs	130 docs citations	130 times ranked	13913 citing authors

#	Article	IF	Citations
1	Fate Tracing Reveals the Pericyte and Not Epithelial Origin of Myofibroblasts in Kidney Fibrosis. American Journal of Pathology, 2010, 176, 85-97.	3.8	1,281
2	Intrinsic Epithelial Cells Repair the Kidney after Injury. Cell Stem Cell, 2008, 2, 284-291.	11.1	752
3	Perivascular Gli1+ Progenitors Are Key Contributors to Injury-Induced Organ Fibrosis. Cell Stem Cell, 2015, 16, 51-66.	11.1	738
4	Mechanisms of Renal Fibrosis. Annual Review of Physiology, 2018, 80, 309-326.	13.1	681
5	Kidney injury moleculeâ€“1 is a phosphatidylserine receptor that confers a phagocytic phenotype on epithelial cells. Journal of Clinical Investigation, 2008, 118, 1657-1668.	8.2	613
6	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.	6.1	493
7	Comparative Analysis and Refinement of Human PSC-Derived Kidney Organoid Differentiation with Single-Cell Transcriptomics. Cell Stem Cell, 2018, 23, 869-881.e8.	11.1	419
8	Differentiated kidney epithelial cells repair injured proximal tubule. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1527-1532.	7.1	392
9	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.	7.1	323
10	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, 9226-9231.	7.1	316
11	Mesenchymal Stem Cells in Fibrotic Disease. Cell Stem Cell, 2017, 21, 166-177.	11.1	309
12	Mesenchymal Stem Cells in Acute Kidney Injury. Annual Review of Medicine, 2008, 59, 311-325.	12.2	301
13	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.	7.1	300
14	Chronic epithelial kidney injury molecule-1 expression causes murine kidney fibrosis. Journal of Clinical Investigation, 2013, 123, 4023-4035.	8.2	281
15	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.	6.1	281
16	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.	11.1	254
17	Single cell transcriptional and chromatin accessibility profiling redefine cellular heterogeneity in the adult human kidney. Nature Communications, 2021, 12, 2190.	12.8	218
18	Understanding the origin, activation and regulation of matrix-producing myofibroblasts for treatment of fibrotic disease. Journal of Pathology, 2013, 231, 273-289.	4.5	195

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19	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.	11.1	195
20	Renal injury is a third hit promoting rapid development of adult polycystic kidney disease. Human Molecular Genetics, 2009, 18, 2523-2531.	2.9	183
21	Gemcitabine-associated thrombotic microangiopathy. Cancer, 2004, 100, 2664-2670.	4.1	175
22	Sox9 Activation Highlights a Cellular Pathway of Renal Repair in the Acutely Injured Mammalian Kidney. Cell Reports, 2015, 12, 1325-1338.	6.4	172
23	Clinical Use of the Urine Biomarker [TIMP-2]ÂÃ— [IGFBP7] forÂAcute Kidney Injury Risk Assessment. American Journal of Kidney Diseases, 2016, 68, 19-28.	1.9	172
24	Cell-specific translational profiling in acute kidney injury. Journal of Clinical Investigation, 2014, 124, 1242-1254.	8.2	172
25	Hedgehog-Gli Pathway Activation during Kidney Fibrosis. American Journal of Pathology, 2012, 180, 1441-1453.	3.8	171
26	Renal Failure Associated with Cancer and Its Treatment: An Update. Journal of the American Society of Nephrology: JASN, 2005, 16, 151-161.	6.1	164
27	Wnt4/Î²â˘Catenin Signaling in Medullary Kidney Myofibroblasts. Journal of the American Society of Nephrology: JASN, 2013, 24, 1399-1412.	6.1	153
28	Pharmacological GLI2 inhibition prevents myofibroblast cell-cycle progression and reduces kidney fibrosis. Journal of Clinical Investigation, 2015, 125, 2935-2951.	8.2	143
29	Gli1+ Pericyte Loss Induces Capillary Rarefaction and Proximal Tubular Injury. Journal of the American Society of Nephrology: JASN, 2017, 28, 776-784.	6.1	125
30	Kidney Pericytes: Roles in Regeneration and Fibrosis. Seminars in Nephrology, 2014, 34, 374-383.	1.6	120
31	Cellular plasticity in kidney injury and repair. Nature Reviews Nephrology, 2017, 13, 39-46.	9.6	115
32	Trans-ethnic kidney function association study reveals putative causal genes and effects on kidney-specific disease aetiologies. Nature Communications, 2019, 10, 29.	12.8	113
33	Paracrine Wnt1 Drives Interstitial Fibrosis without Inflammation by Tubulointerstitial Cross-Talk. Journal of the American Society of Nephrology: JASN, 2016, 27, 781-790.	6.1	107
34	Fluorescence Microangiography for Quantitative Assessment of Peritubular Capillary Changes after AKI in Mice. Journal of the American Society of Nephrology: JASN, 2014, 25, 1924-1931.	6.1	105
35	FOXM1 drives proximal tubule proliferation during repair from acute ischemic kidney injury. Journal of Clinical Investigation, 2019, 129, 5501-5517.	8.2	103
36	Cardio-Oncology. Circulation, 2015, 132, 2248-2258.	1.6	99

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37	Silencing of microRNA-132 reduces renal fibrosis by selectively inhibiting myofibroblast proliferation. Kidney International, 2016, 89, 1268-1280.	5.2	97
38	Multi-omics integration in the age of million single-cell data. Nature Reviews Nephrology, 2021, 17, 710-724.	9.6	97
39	ADAM17 substrate release in proximal tubule drives kidney fibrosis. JCI Insight, 2016, 1, .	5.0	96
40	CDK4/6 inhibition induces epithelial cell cycle arrest and ameliorates acute kidney injury. American Journal of Physiology - Renal Physiology, 2014, 306, F379-F388.	2.7	93
41	Origin of new cells in the adult kidney: results from genetic labeling techniques. Kidney International, 2011, 79, 494-501.	5.2	92
42	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.	1.6	90
43	Translational Profiles of Medullary Myofibroblasts during Kidney Fibrosis. Journal of the American Society of Nephrology: JASN, 2014, 25, 1979-1990.	6.1	80
44	Human Pluripotent Stem Cell-Derived Kidney Organoids with Improved Collecting Duct Maturation and Injury Modeling. Cell Reports, 2020, 33, 108514.	6.4	79
45	Parabiosis and single-cell RNA sequencing reveal a limited contribution of monocytes to myofibroblasts in kidney fibrosis. JCI Insight, 2018, 3, .	5.0	79
46	Targeting Endogenous Repair Pathways after AKI. Journal of the American Society of Nephrology: JASN, 2016, 27, 990-998.	6.1	77
47	Who regenerates the kidney tubule?. Nephrology Dialysis Transplantation, 2015, 30, 903-910.	0.7	74
48	Mapping the single-cell transcriptomic response of murine diabetic kidney disease to therapies. Cell Metabolism, 2022, 34, 1064-1078.e6.	16.2	72
49	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.	6.1	71
50	The promise of single-cell RNA sequencing for kidney disease investigation. Kidney International, 2017, 92, 1334-1342.	5.2	67
51	Spatially Resolved Transcriptomic Analysis of Acute Kidney Injury in a Female Murine Model. Journal of the American Society of Nephrology: JASN, 2022, 33, 279-289.	6.1	62
52	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.	6.1	61
53	(Re)Building a Kidney. Journal of the American Society of Nephrology: JASN, 2017, 28, 1370-1378.	6.1	58
54	The contribution ofÂadult stem cells toÂrenal repair. Nephrologie Et Therapeutique, 2007, 3, 3-10.	0.5	56

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55	Rapid Development of Hypertension by Sorafenib: Toxicity or Target?. Clinical Cancer Research, 2009, 15, 5947-5949.	7.0	49
56	Matrix-Producing Cells in Chronic Kidney Disease: Origin, Regulation, and Activation. Current Pathobiology Reports, 2013, 1, 301-311.	3.4	49
57	Rationale of Mesenchymal Stem Cell Therapy in Kidney Injury. Nephron Clinical Practice, 2014, 127, 75-80.	2.3	49
58	Graft immaturity and safety concerns in transplanted human kidney organoids. Experimental and Molecular Medicine, 2019, 51, 1-13.	7.7	48
59	Acetaminophen-Induced Anion Gap Metabolic Acidosis and 5-Oxoprolinuria (Pyroglutamic Aciduria) Acquired in Hospital. American Journal of Kidney Diseases, 2005, 46, 143-146.	1.9	45
60	Pharmacological and genetic depletion of fibrinogen protects from kidney fibrosis. American Journal of Physiology - Renal Physiology, 2014, 307, F471-F484.	2.7	45
61	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.	2.9	39
62	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.	6.1	38
63	Discovery of new glomerular diseaseâ€"relevant genes by translational profiling of podocytes in vivo. Kidney International, 2014, 86, 1116-1129.	5.2	36
64	Overcoming Translational Barriers in Acute Kidney Injury. Clinical Journal of the American Society of Nephrology: CJASN, 2018, 13, 1113-1123.	4.5	36
65	Lineage-tracing methods and the kidney. Kidney International, 2014, 86, 481-488.	5.2	35
66	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, 1943-1957.	6.1	34
67	Controversies on the origin of proliferating epithelial cells after kidney injury. Pediatric Nephrology, 2014, 29, 673-679.	1.7	33
68	Bringing Renal Biopsy Interpretation Into the Molecular Age With Single-Cell RNA Sequencing. Seminars in Nephrology, 2018, 38, 31-39.	1.6	31
69	SARS-CoV-2 in the kidney: bystander or culprit?. Nature Reviews Nephrology, 2020, 16, 703-704.	9.6	30
70	Single-cell Transcriptomics and Solid Organ Transplantation. Transplantation, 2019, 103, 1776-1782.	1.0	28
71	Fibrotic Changes Mediating Acute Kidney Injury to Chronic Kidney Disease Transition. Nephron, 2017, 137, 264-267.	1.8	24
72	Kidney structures differentiated from stem cells. Nature Cell Biology, 2014, 16, 19-21.	10.3	22

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73	Gene Editing: Powerful New Tools for Nephrology Research and Therapy. Journal of the American Society of Nephrology: JASN, 2016, 27, 2940-2947.	6.1	22
74	Kidney repair and regeneration: perspectives of the NIDDK (Re)Building a Kidney consortium. Kidney International, 2022, 101, 845-853.	5.2	22
75	Kidney and organoid single-cell transcriptomics: the end of the beginning. Pediatric Nephrology, 2020, 35, 191-197.	1.7	21
76	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.	5.2	21
77	Targeting Phospholipase D4 Attenuates Kidney Fibrosis. Journal of the American Society of Nephrology: JASN, 2017, 28, 3579-3589.	6.1	20
78	A conditionally immortalized Gli1-positive kidney mesenchymal cell line models myofibroblast transition. American Journal of Physiology - Renal Physiology, 2019, 316, F63-F75.	2.7	20
79	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.	7.1	19
80	Single Cell Sequencing and Kidney Organoids Generated from Pluripotent Stem Cells. Clinical Journal of the American Society of Nephrology: CJASN, 2020, 15, 550-556.	4.5	19
81	Bioprinting better kidney organoids. Nature Materials, 2021, 20, 128-130.	27.5	19
82	Regrow or Repair: An Update on Potential Regenerative Therapies for the Kidney. Journal of the American Society of Nephrology: JASN, 2022, 33, 15-32.	6.1	18
83	Intratubular epithelial-mesenchymal transition and tubular atrophy after kidney injury in mice. American Journal of Physiology - Renal Physiology, 2020, 319, F579-F591.	2.7	17
84	Circulating Plasma Biomarkers in Biopsy-Confirmed Kidney Disease. Clinical Journal of the American Society of Nephrology: CJASN, 2022, 17, 27-37.	4.5	17
85	Mapping kidney cellular complexity. Science, 2018, 360, 709-710.	12.6	15
86	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.	2.7	15
87	Wnt signaling in kidney tubulointerstitium during disease. Histology and Histopathology, 2015, 30, 163-71.	0.7	15
88	Spatially resolved transcriptomics and the kidney: many opportunities. Kidney International, 2022, 102, 482-491.	5.2	15
89	Endothelial marker-expressing stromal cells are critical for kidney formation. American Journal of Physiology - Renal Physiology, 2017, 313, F611-F620.	2.7	14
90	Single-cell genomics and gene editing: implications for nephrology. Nature Reviews Nephrology, 2019, 15, 63-64.	9.6	14

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91	Pharmacological inhibition of ataxia-telangiectasia mutated exacerbates acute kidney injury by activating p53 signaling in mice. Scientific Reports, 2020, 10, 4441.	3.3	14
92	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.	3.3	13
93	The ten barriers for translation of animal data on AKI to the clinical setting. Intensive Care Medicine, 2017, 43, 898-900.	8.2	11
94	Epigenomics and the kidney. Current Opinion in Nephrology and Hypertension, 2020, 29, 280-285.	2.0	11
95	Kidney vascular congestion exacerbates acute kidney injury in mice. Kidney International, 2022, 101, 551-562.	5.2	11
96	Kidney omics in hypertension: from statistical associations to biological mechanisms and clinical applications. Kidney International, 2022, 102, 492-505.	5.2	11
97	Genetic tracing of the epithelial lineage during mammalian kidney repair. Kidney International Supplements, 2011, 1, 83-86.	14.2	10
98	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.	3.7	10
99	Single Cell Technologies: Beyond Microfluidics. Kidney360, 2021, 2, 1196-1204.	2.1	10
100	Research Priorities for Kidney-Related Researchâ€"An Agenda to Advance Kidney Care: A Position Statement From the National Kidney Foundation. American Journal of Kidney Diseases, 2022, 79, 141-152.	1.9	10
101	Minimal-change nephrotic syndrome in a hematopoietic stem-cell transplant recipient. Nature Clinical Practice Nephrology, 2006, 2, 535-539.	2.0	8
102	Recent Insights into Kidney Injury and Repair from Transcriptomic Analyses. Nephron, 2019, 143, 162-165.	1.8	8
103	Cutting to the chase: taking the pulse of label-retaining cells in kidney. American Journal of Physiology - Renal Physiology, 2015, 308, F29-F30.	2.7	7
104	Prioritizing Functional Goals as We Rebuild the Kidney. Journal of the American Society of Nephrology: JASN, 2019, 30, 2287-2288.	6.1	5
105	Cre/loxP approachâ€mediated downregulation of Pik3c3 inhibits the hypertrophic growth of renal proximal tubule cells. Journal of Cellular Physiology, 2020, 235, 9958-9973.	4.1	4
106	Authorsâ€™ Reply. Journal of the American Society of Nephrology: JASN, 2019, 30, 714-714.	6.1	3
107	Recent advances in lineage tracing for the kidney. Kidney International, 2021, 100, 1179-1184.	5.2	2
108	The Seen and the Unseen: Clinical Guidelines and Cost-Effective Care. Journal of the American Society of Nephrology: JASN, 2014, 25, 2390-2392.	6.1	1

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109	Introduction: Stem Cells and Kidney Regeneration. Seminars in Nephrology, 2014, 34, 349-350.	1.6	1
110	Mutational fingerprints reconstruct human cell genealogies. Nature Reviews Nephrology, 2022, 18, 6-7.	9.6	1
111	New functions for basophils identified in kidney fibrosis. Nature Immunology, 2022, 23, 824-825.	14.5	1
112	Surveying the human single-cell landscape. Kidney International, 2020, 98, 1385-1387.	5.2	0
113	Evolving Demographics of Nephrology Research Workforce in the United States. Clinical Journal of the American Society of Nephrology: CJASN, 2021, 16, 1312-1314.	4.5	0
114	A Transgenic Cre Mouse Line for the Study of Kidney Pericytes and Perivascular Fibroblasts. FASEB Journal, 2013, 27, 897.2.	0.5	0
115	Understanding How Genetic Background Affects Kidney Function at the Single-Cell Level. American Journal of Kidney Diseases, 2022, 79, 613-615.	1.9	0
116	Mini kidney organoids deliver maximal drug screening impact. Cell Stem Cell, 2022, 29, 1011-1012.	11.1	0