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	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
2	Mutational fingerprints reconstruct human cell genealogies. Nature Reviews Nephrology, 2022, 18, 6-7.	9.6	1
3	Circulating Plasma Biomarkers in Biopsy-Confirmed Kidney Disease. Clinical Journal of the American Society of Nephrology: CJASN, 2022, 17, 27-37.	4.5	17
4	Kidney vascular congestion exacerbates acute kidney injury in mice. Kidney International, 2022, 101, 551-562.	5.2	11
5	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
6	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
7	Understanding How Genetic Background Affects Kidney Function at the Single-Cell Level. American Journal of Kidney Diseases, 2022, 79, 613-615.	1.9	0
8	Kidney repair and regeneration: perspectives of the NIDDK (Re)Building a Kidney consortium. Kidney International, 2022, 101, 845-853.	5.2	22
9	New functions for basophils identified in kidney fibrosis. Nature Immunology, 2022, 23, 824-825.	14.5	1
10	Mapping the single-cell transcriptomic response of murine diabetic kidney disease to therapies. Cell Metabolism, 2022, 34, 1064-1078.e6.	16.2	72
11	Kidney omics in hypertension: from statistical associations to biological mechanisms and clinical applications. Kidney International, 2022, 102, 492-505.	5.2	11
12	Mini kidney organoids deliver maximal drug screening impact. Cell Stem Cell, 2022, 29, 1011-1012.	11.1	0
13	Spatially resolved transcriptomics and the kidney: many opportunities. Kidney International, 2022, 102, 482-491.	5.2	15
14	Bioprinting better kidney organoids. Nature Materials, 2021, 20, 128-130.	27.5	19
15	Single cell transcriptional and chromatin accessibility profiling redefine cellular heterogeneity in the adult human kidney. Nature Communications, 2021, 12, 2190.	12.8	218
16	Single Cell Technologies: Beyond Microfluidics. Kidney360, 2021, 2, 1196-1204.	2.1	10
17	Recent advances in lineage tracing for the kidney. Kidney International, 2021, 100, 1179-1184.	5.2	2
18	Multi-omics integration in the age of million single-cell data. Nature Reviews Nephrology, 2021, 17, 710-724.	9.6	97

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19	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
20	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
21	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
22	Kidney and organoid single-cell transcriptomics: the end of the beginning. Pediatric Nephrology, 2020, 35, 191-197.	1.7	21
23	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
24	Surveying the human single-cell landscape. Kidney International, 2020, 98, 1385-1387.	5.2	0
25	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
26	SARS-CoV-2 in the kidney: bystander or culprit?. Nature Reviews Nephrology, 2020, 16, 703-704.	9.6	30
27	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
28	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
29	Human Pluripotent Stem Cell-Derived Kidney Organoids with Improved Collecting Duct Maturation and Injury Modeling. Cell Reports, 2020, 33, 108514.	6.4	79
30	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
31	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
32	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
33	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
34	Epigenomics and the kidney. Current Opinion in Nephrology and Hypertension, 2020, 29, 280-285.	2.0	11
35	Pharmacological inhibition of ataxia-telangiectasia mutated exacerbates acute kidney injury by activating p53 signaling in mice. Scientific Reports, 2020, 10, 4441.	3.3	14
36	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

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37	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
38	Recent Insights into Kidney Injury and Repair from Transcriptomic Analyses. Nephron, 2019, 143, 162-165.	1.8	8
39	Authorsâ€™ Reply. Journal of the American Society of Nephrology: JASN, 2019, 30, 714-714.	6.1	3
40	Prioritizing Functional Goals as We Rebuild the Kidney. Journal of the American Society of Nephrology: JASN, 2019, 30, 2287-2288.	6.1	5
41	Graft immaturity and safety concerns in transplanted human kidney organoids. Experimental and Molecular Medicine, 2019, 51, 1-13.	7.7	48
42	Single-cell Transcriptomics and Solid Organ Transplantation. Transplantation, 2019, 103, 1776-1782.	1.0	28
43	Single-cell genomics and gene editing: implications for nephrology. Nature Reviews Nephrology, 2019, 15, 63-64.	9.6	14
44	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
45	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
46	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
47	FOXM1 drives proximal tubule proliferation during repair from acute ischemic kidney injury. Journal of Clinical Investigation, 2019, 129, 5501-5517.	8.2	103
48	Bringing Renal Biopsy Interpretation Into the Molecular Age With Single-Cell RNA Sequencing. Seminars in Nephrology, 2018, 38, 31-39.	1.6	31
49	Overcoming Translational Barriers in Acute Kidney Injury. Clinical Journal of the American Society of Nephrology: CJASN, 2018, 13, 1113-1123.	4.5	36
50	Mechanisms of Renal Fibrosis. Annual Review of Physiology, 2018, 80, 309-326.	13.1	681
51	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
52	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
53	Mapping kidney cellular complexity. Science, 2018, 360, 709-710.	12.6	15
54	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

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55	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
56	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
57	Parabiosis and single-cell RNA sequencing reveal a limited contribution of monocytes to myofibroblasts in kidney fibrosis. JCI Insight, 2018, 3, .	5.0	79
58	(Re)Building a Kidney. Journal of the American Society of Nephrology: JASN, 2017, 28, 1370-1378.	6.1	58
59	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
60	The ten barriers for translation of animal data on AKI to the clinical setting. Intensive Care Medicine, 2017, 43, 898-900.	8.2	11
61	Endothelial marker-expressing stromal cells are critical for kidney formation. American Journal of Physiology - Renal Physiology, 2017, 313, F611-F620.	2.7	14
62	The promise of single-cell RNA sequencing for kidney disease investigation. Kidney International, 2017, 92, 1334-1342.	5.2	67
63	Fibrotic Changes Mediating Acute Kidney Injury to Chronic Kidney Disease Transition. Nephron, 2017, 137, 264-267.	1.8	24
64	Targeting Phospholipase D4 Attenuates Kidney Fibrosis. Journal of the American Society of Nephrology: JASN, 2017, 28, 3579-3589.	6.1	20
65	Mesenchymal Stem Cells in Fibrotic Disease. Cell Stem Cell, 2017, 21, 166-177.	11.1	309
66	Cellular plasticity in kidney injury and repair. Nature Reviews Nephrology, 2017, 13, 39-46.	9.6	115
67	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
68	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
69	Silencing of microRNA-132 reduces renal fibrosis by selectively inhibiting myofibroblast proliferation. Kidney International, 2016, 89, 1268-1280.	5.2	97
70	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
71	Targeting Endogenous Repair Pathways after AKI. Journal of the American Society of Nephrology: JASN, 2016, 27, 990-998.	6.1	77
72	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

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73	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
74	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
75	ADAM17 substrate release in proximal tubule drives kidney fibrosis. JCI Insight, 2016, 1, .	5.0	96
76	Sox9 Activation Highlights a Cellular Pathway of Renal Repair in the Acutely Injured Mammalian Kidney. Cell Reports, 2015, 12, 1325-1338.	6.4	172
77	Cardio-Oncology. Circulation, 2015, 132, 2248-2258.	1.6	99
78	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
79	Perivascular Gli1+ Progenitors Are Key Contributors to Injury-Induced Organ Fibrosis. Cell Stem Cell, 2015, 16, 51-66.	11.1	738
80	Who regenerates the kidney tubule?. Nephrology Dialysis Transplantation, 2015, 30, 903-910.	0.7	74
81	Pharmacological GLI2 inhibition prevents myofibroblast cell-cycle progression and reduces kidney fibrosis. Journal of Clinical Investigation, 2015, 125, 2935-2951.	8.2	143
82	Wnt signaling in kidney tubulointerstitium during disease. Histology and Histopathology, 2015, 30, 163-71.	0.7	15
83	Discovery of new glomerular diseaseâ€"relevant genes by translational profiling of podocytes in vivo. Kidney International, 2014, 86, 1116-1129.	5.2	36
84	Kidney structures differentiated from stem cells. Nature Cell Biology, 2014, 16, 19-21.	10.3	22
85	Lineage-tracing methods and the kidney. Kidney International, 2014, 86, 481-488.	5.2	35
86	Translational Profiles of Medullary Myofibroblasts during Kidney Fibrosis. Journal of the American Society of Nephrology: JASN, 2014, 25, 1979-1990.	6.1	80
87	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
88	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
89	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
90	Pharmacological and genetic depletion of fibrinogen protects from kidney fibrosis. American Journal of Physiology - Renal Physiology, 2014, 307, F471-F484.	2.7	45

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91	Controversies on the origin of proliferating epithelial cells after kidney injury. Pediatric Nephrology, 2014, 29, 673-679.	1.7	33
92	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
93	Rationale of Mesenchymal Stem Cell Therapy in Kidney Injury. Nephron Clinical Practice, 2014, 127, 75-80.	2.3	49
94	Kidney Pericytes: Roles in Regeneration and Fibrosis. Seminars in Nephrology, 2014, 34, 374-383.	1.6	120
95	Introduction: Stem Cells and Kidney Regeneration. Seminars in Nephrology, 2014, 34, 349-350.	1.6	1
96	Cell-specific translational profiling in acute kidney injury. Journal of Clinical Investigation, 2014, 124, 1242-1254.	8.2	172
97	Matrix-Producing Cells in Chronic Kidney Disease: Origin, Regulation, and Activation. Current Pathobiology Reports, 2013, 1, 301-311.	3.4	49
98	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
99	Wnt4/Î²â˘Catenin Signaling in Medullary Kidney Myofibroblasts. Journal of the American Society of Nephrology: JASN, 2013, 24, 1399-1412.	6.1	153
100	Chronic epithelial kidney injury molecule-1 expression causes murine kidney fibrosis. Journal of Clinical Investigation, 2013, 123, 4023-4035.	8.2	281
101	A Transgenic Cre Mouse Line for the Study of Kidney Pericytes and Perivascular Fibroblasts. FASEB Journal, 2013, 27, 897.2.	0.5	0
102	Hedgehog-Gli Pathway Activation during Kidney Fibrosis. American Journal of Pathology, 2012, 180, 1441-1453.	3.8	171
103	Origin of new cells in the adult kidney: results from genetic labeling techniques. Kidney International, 2011, 79, 494-501.	5.2	92
104	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
105	Genetic tracing of the epithelial lineage during mammalian kidney repair. Kidney International Supplements, 2011, 1, 83-86.	14.2	10
106	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
107	Rapid Development of Hypertension by Sorafenib: Toxicity or Target?. Clinical Cancer Research, 2009, 15, 5947-5949.	7.0	49
108	Renal injury is a third hit promoting rapid development of adult polycystic kidney disease. Human Molecular Genetics, 2009, 18, 2523-2531.	2.9	183

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109	Intrinsic Epithelial Cells Repair the Kidney after Injury. Cell Stem Cell, 2008, 2, 284-291.	11.1	752
110	Mesenchymal Stem Cells in Acute Kidney Injury. Annual Review of Medicine, 2008, 59, 311-325.	12.2	301
111	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
112	The contribution ofÂadult stem cells toÂrenal repair. Nephrologie Et Therapeutique, 2007, 3, 3-10.	0.5	56
113	Minimal-change nephrotic syndrome in a hematopoietic stem-cell transplant recipient. Nature Clinical Practice Nephrology, 2006, 2, 535-539.	2.0	8
114	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
115	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
116	Gemcitabine-associated thrombotic microangiopathy. Cancer, 2004, 100, 2664-2670.	4.1	175