

Calvin J Kuo

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

18,077
citations

24978

57
h-index

34900

98
g-index

111
all docs

111
docs citations

111
times ranked

25865
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased Wnt Signaling During Aging Alters Muscle Stem Cell Fate and Increases Fibrosis. <i>Science</i> , 2007, 317, 807-810.	6.0	1,321
2	Organoid Modeling of the Tumor Immune Microenvironment. <i>Cell</i> , 2018, 175, 1972-1988.e16.	13.5	870
3	Through-skull fluorescence imaging of the brain in a new near-infrared window. <i>Nature Photonics</i> , 2014, 8, 723-730.	15.6	829
4	Sustained in vitro intestinal epithelial culture within a Wnt-dependent stem cell niche. <i>Nature Medicine</i> , 2009, 15, 701-706.	15.2	760
5	VEGF-dependent plasticity of fenestrated capillaries in the normal adult microvasculature. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H560-H576.	1.5	687
6	Augmented Wnt Signaling in a Mammalian Model of Accelerated Aging. <i>Science</i> , 2007, 317, 803-806.	6.0	683
7	The intestinal stem cell markers <i>Bmi1</i> and <i>Lgr5</i> identify two functionally distinct populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 466-471.	3.3	683
8	β -Catenin-Driven Cancers Require a YAP1 Transcriptional Complex for Survival and Tumorigenesis. <i>Cell</i> , 2012, 151, 1457-1473.	13.5	647
9	Wnt/ β -catenin signaling is required for CNS, but not non-CNS, angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 641-646.	3.3	624
10	Rapamycin selectively inhibits interleukin-2 activation of p70 S6 kinase. <i>Nature</i> , 1992, 358, 70-73.	13.7	612
11	Essential requirement for Wnt signaling in proliferation of adult small intestine and colon revealed by adenoviral expression of <i>Dickkopf-1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 266-271.	3.3	560
12	Restriction of intestinal stem cell expansion and the regenerative response by YAP. <i>Nature</i> , 2013, 493, 106-110.	13.7	463
13	<i>Apc</i> Tumor Suppressor Gene Is the "Zonation-Keeper" of Mouse Liver. <i>Developmental Cell</i> , 2006, 10, 759-770.	3.1	460
14	A transcriptional hierarchy involved in mammalian cell-type specification. <i>Nature</i> , 1992, 355, 457-461.	13.7	419
15	Oncogenic transformation of diverse gastrointestinal tissues in primary organoid culture. <i>Nature Medicine</i> , 2014, 20, 769-777.	15.2	349
16	Cellular changes in normal blood capillaries undergoing regression after inhibition of VEGF signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H547-H559.	1.5	332
17	Non-equivalence of Wnt and R-spondin ligands during <i>Lgr5</i> ⁺ intestinal stem-cell self-renewal. <i>Nature</i> , 2017, 545, 238-242.	13.7	327
18	Oligodendrocyte precursors migrate along vasculature in the developing nervous system. <i>Science</i> , 2016, 351, 379-384.	6.0	319

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19	Controlling Epithelial Polarity: A Human Enteroid Model for Host-Pathogen Interactions. <i>Cell Reports</i> , 2019, 26, 2509-2520.e4.	2.9	316
20	Fluorescence Imaging In Vivo at Wavelengths beyond 1500nm. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14758-14762.	7.2	310
21	Expression of specific inflammasome gene modules stratifies older individuals into two extreme clinical and immunological states. <i>Nature Medicine</i> , 2017, 23, 174-184.	15.2	304
22	Intestinal Enteroendocrine Lineage Cells Possess Homeostatic and Injury-Inducible Stem Cell Activity. <i>Cell Stem Cell</i> , 2017, 21, 78-90.e6.	5.2	280
23	Progenitor identification and SARS-CoV-2 infection in human distal lung organoids. <i>Nature</i> , 2020, 588, 670-675.	13.7	273
24	Surrogate Wnt agonists that phenocopy canonical Wnt and β -catenin signalling. <i>Nature</i> , 2017, 545, 234-237.	13.7	264
25	Engineered materials for organoid systems. <i>Nature Reviews Materials</i> , 2019, 4, 606-622.	23.3	251
26	Essential Regulation of CNS Angiogenesis by the Orphan G Protein-Coupled Receptor GPR124. <i>Science</i> , 2010, 330, 985-989.	6.0	247
27	Organoid Models of Tumor Immunology. <i>Trends in Immunology</i> , 2020, 41, 652-664.	2.9	210
28	CRISPR screens in cancer spheroids identify 3D growth-specific vulnerabilities. <i>Nature</i> , 2020, 580, 136-141.	13.7	203
29	Gpr124 is essential for blood-brain barrier integrity in central nervous system disease. <i>Nature Medicine</i> , 2017, 23, 450-460.	15.2	177
30	A nomenclature for intestinal in vitro cultures. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, G1359-G1363.	1.6	171
31	The Intestinal Stem Cell Niche: Homeostasis and Adaptations. <i>Trends in Cell Biology</i> , 2018, 28, 1062-1078.	3.6	165
32	Relief of hypoxia by angiogenesis promotes neural stem cell differentiation by targeting glycolysis. <i>EMBO Journal</i> , 2016, 35, 924-941.	3.5	161
33	The Nc1/Endostatin Domain of <i>Caenorhabditis elegans</i> Type XVIII Collagen Affects Cell Migration and Axon Guidance. <i>Journal of Cell Biology</i> , 2001, 152, 1219-1232.	2.3	156
34	Regulation of self-renewal and differentiation by the intestinal stem cell niche. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 2513-2523.	2.4	156
35	Oligomerization-Dependent Regulation of Motility and Morphogenesis by the Collagen XVIII Nc1/Endostatin Domain. <i>Journal of Cell Biology</i> , 2001, 152, 1233-1246.	2.3	151
36	VEGF modulates erythropoiesis through regulation of adult hepatic erythropoietin synthesis. <i>Nature Medicine</i> , 2006, 12, 793-800.	15.2	148

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37	Chemodetection and Destruction of Host Urea Allows <i>Helicobacter pylori</i> to Locate the Epithelium. <i>Cell Host and Microbe</i> , 2015, 18, 147-156.	5.1	141
38	An expanded universe of cancer targets. <i>Cell</i> , 2021, 184, 1142-1155.	13.5	135
39	Modeling human adaptive immune responses with tonsil organoids. <i>Nature Medicine</i> , 2021, 27, 125-135.	15.2	133
40	Cross-talk between hypoxia and insulin signaling through Phd3 regulates hepatic glucose and lipid metabolism and ameliorates diabetes. <i>Nature Medicine</i> , 2013, 19, 1325-1330.	15.2	125
41	Bone marrow niche trafficking of miR-126 controls the self-renewal of leukemia stem cells in chronic myelogenous leukemia. <i>Nature Medicine</i> , 2018, 24, 450-462.	15.2	123
42	Reserve Stem Cells in Intestinal Homeostasis and Injury. <i>Gastroenterology</i> , 2018, 155, 1348-1361.	0.6	118
43	Metastatic tumor evolution and organoid modeling implicate <i>TGFBR2</i> as a cancer driver in diffuse gastric cancer. <i>Genome Biology</i> , 2014, 15, 428.	3.8	110
44	Reversible cell-cycle entry in adult kidney podocytes through regulated control of telomerase and Wnt signaling. <i>Nature Medicine</i> , 2012, 18, 111-119.	15.2	103
45	Wnt pathway regulation of intestinal stem cells. <i>Journal of Physiology</i> , 2016, 594, 4837-4847.	1.3	97
46	High-Efficiency, Selection-free Gene Repair in Airway Stem Cells from Cystic Fibrosis Patients Rescues CFTR Function in Differentiated Epithelia. <i>Cell Stem Cell</i> , 2020, 26, 161-171.e4.	5.2	97
47	Developmental and pathological angiogenesis in the central nervous system. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 3489-3506.	2.4	93
48	Applications of organoids for cancer biology and precision medicine. <i>Nature Cancer</i> , 2020, 1, 761-773.	5.7	93
49	A liver Hif-2 β -Irs2 pathway sensitizes hepatic insulin signaling and is modulated by Vegf inhibition. <i>Nature Medicine</i> , 2013, 19, 1331-1337.	15.2	90
50	Next-Generation Surrogate Wnts Support Organoid Growth and Deconvolute Frizzled Pleiotropy In Vivo. <i>Cell Stem Cell</i> , 2020, 27, 840-851.e6.	5.2	84
51	Adenoviral Gene Transfer With Soluble Vascular Endothelial Growth Factor Receptors Impairs Angiogenesis and Perfusion in a Murine Model of Hindlimb Ischemia. <i>Circulation</i> , 2004, 110, 2424-2429.	1.6	75
52	A CRISPR/Cas9-Engineered <i>ARID1A</i> -Deficient Human Gastric Cancer Organoid Model Reveals Essential and Nonessential Modes of Oncogenic Transformation. <i>Cancer Discovery</i> , 2021, 11, 1562-1581.	7.7	75
53	Developmental Angiogenesis of the Central Nervous System. <i>Lymphatic Research and Biology</i> , 2008, 6, 173-180.	0.5	74
54	An Air-Liquid Interface Culture System for 3D Organoid Culture of Diverse Primary Gastrointestinal Tissues. <i>Methods in Molecular Biology</i> , 2016, 1422, 33-40.	0.4	69

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55	STAG2 deficiency induces interferon responses via cGAS-STING pathway and restricts virus infection. <i>Nature Communications</i> , 2018, 9, 1485.	5.8	68
56	Engineering of three-dimensional microenvironments to promote contractile behavior in primary intestinal organoids. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 127-142.	0.6	65
57	A RECK-WNT7 Receptor-Ligand Interaction Enables Isoform-Specific Regulation of Wnt Bioavailability. <i>Cell Reports</i> , 2018, 25, 339-349.e9.	2.9	65
58	Organoids as Models for Neoplastic Transformation. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2016, 11, 199-220.	9.6	64
59	Development of a miniaturized 3D organoid culture platform for ultra-high-throughput screening. <i>Journal of Molecular Cell Biology</i> , 2020, 12, 630-643.	1.5	61
60	Immune receptor inhibition through enforced phosphatase recruitment. <i>Nature</i> , 2020, 586, 779-784.	13.7	59
61	Linked read sequencing resolves complex genomic rearrangements in gastric cancer metastases. <i>Genome Medicine</i> , 2017, 9, 57.	3.6	56
62	HAT1 Coordinates Histone Production and Acetylation via H4 Promoter Binding. <i>Molecular Cell</i> , 2019, 75, 711-724.e5.	4.5	55
63	Inhibition of VEGF (Vascular Endothelial Growth Factor)-A or its Receptor Activity Suppresses Experimental Aneurysm Progression in the Aortic Elastase Infusion Model. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 1652-1666.	1.1	48
64	Oocyte-derived R-spondin2 promotes ovarian follicle development. <i>FASEB Journal</i> , 2013, 27, 2175-2184.	0.2	47
65	Adenovirus-mediated delivery of a soluble form of the VEGF receptor Flk1 delays the growth of murine and human pancreatic adenocarcinoma in mice. <i>Surgery</i> , 2002, 132, 857-865.	1.0	45
66	Gene Therapy of Prostate Cancer with the Soluble Vascular Endothelial Growth Factor Receptor Fk1. <i>Cancer Biology and Therapy</i> , 2002, 1, 548-553.	1.5	39
67	Receptor subtype discrimination using extensive shape complementary designed interfaces. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 407-414.	3.6	36
68	Retinoic Acid and Lymphotoxin Signaling Promote Differentiation of Human Intestinal M Cells. <i>Gastroenterology</i> , 2020, 159, 214-226.e1.	0.6	35
69	Organoid modeling for cancer precision medicine. <i>Genome Medicine</i> , 2015, 7, 32.	3.6	32
70	Cotargeting tumor and tumor endothelium effectively inhibits the growth of human prostate cancer in adenovirus-mediated antiangiogenesis and oncolysis combination therapy. <i>Cancer Gene Therapy</i> , 2005, 12, 257-267.	2.2	30
71	A multicenter study to standardize reporting and analyses of fluorescence-activated cell-sorted murine intestinal epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, G542-G551.	1.6	29
72	Krüppel-like Factor 4 Modulates Development of BMI1+ Intestinal Stem Cell-Derived Lineage Following β -Radiation-Induced Gut Injury in Mice. <i>Stem Cell Reports</i> , 2016, 6, 815-824.	2.3	27

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73	Novel Tia Biomarkers Identified by Mass Spectrometry-Based Proteomics. <i>International Journal of Stroke</i> , 2015, 10, 1204-1211.	2.9	25
74	Human Intestinal Enteroids Model MHC-II in the Gut Epithelium. <i>Frontiers in Immunology</i> , 2019, 10, 1970.	2.2	24
75	Targeted replacement of full-length CFTR in human airway stem cells by CRISPR-Cas9 for pan-mutation correction in the endogenous locus. <i>Molecular Therapy</i> , 2022, 30, 223-237.	3.7	24
76	The Wnt7's Tale: A story of an orphan who finds her tie to a famous family. <i>Cancer Science</i> , 2016, 107, 576-582.	1.7	22
77	Toward recreating colon cancer in human organoids. <i>Nature Medicine</i> , 2015, 21, 215-216.	15.2	19
78	Increased Hemoglobin Associated with VEGF Inhibitors in Advanced Renal Cell Carcinoma. <i>Cancer Investigation</i> , 2009, 27, 851-856.	0.6	17
79	G Protein-Coupled Receptor 124 (GPR124) Gene Polymorphisms and Risk of Brain Arteriovenous Malformation. <i>Translational Stroke Research</i> , 2012, 3, 418-427.	2.3	17
80	Targeting colorectal cancer with small-molecule inhibitors of ALDH1B1. <i>Nature Chemical Biology</i> , 2022, 18, 1065-1075.	3.9	17
81	Recombinant adenovirus as a methodology for exploration of physiologic functions of growth factor pathways. <i>Journal of Molecular Medicine</i> , 2008, 86, 161-169.	1.7	16
82	Immune organoids: from tumor modeling to precision oncology. <i>Trends in Cancer</i> , 2022, 8, 870-880.	3.8	16
83	Surrogate R-spondins for tissue-specific potentiation of Wnt Signaling. <i>PLoS ONE</i> , 2020, 15, e0226928.	1.1	15
84	Personalizing pancreatic cancer organoids with hPSCs. <i>Nature Medicine</i> , 2015, 21, 1249-1251.	15.2	14
85	Nanoparticle-enabled innate immune stimulation activates endogenous tumor-infiltrating T cells with broad antigen specificities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	14
86	CHK1 protects oncogenic KRAS-expressing cells from DNA damage and is a target for pancreatic cancer treatment. <i>Cell Reports</i> , 2021, 37, 110060.	2.9	14
87	Ascl2 Reinforces Intestinal Stem Cell Identity. <i>Cell Stem Cell</i> , 2015, 16, 105-106.	5.2	13
88	Treatment-induced arteriolar revascularization and miR-126 enhancement in bone marrow niche protect leukemic stem cells in AML. <i>Journal of Hematology and Oncology</i> , 2021, 14, 122.	6.9	13
89	Integrated genomic characterization of ERBB2/HER2 alterations in invasive breast carcinoma: a focus on unusual FISH groups. <i>Modern Pathology</i> , 2020, 33, 1546-1556.	2.9	12
90	RECK in Neural Precursor Cells Plays a Critical Role in Mouse Forebrain Angiogenesis. <i>IScience</i> , 2019, 19, 559-571.	1.9	11

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91	Organoids as Oracles for Precision Medicine in Rectal Cancer. <i>Cell Stem Cell</i> , 2020, 26, 4-6.	5.2	11
92	Cancer stem cells: advances in biology and clinical translation—a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021, 1506, 142-163.	1.8	8
93	High-resolution positron emission microscopy of patient-derived tumor organoids. <i>Nature Communications</i> , 2021, 12, 5883.	5.8	7
94	Home Sweet Home: a Foxl1+ Mesenchymal Niche for Intestinal Stem Cells. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016, 2, 116-117.	2.3	4
95	Maintenance Bevacizumab is Associated With Increased Hemoglobin in Patients With Advanced, Nonsquamous, Non-Small Cell Lung Cancer. <i>Cancer Investigation</i> , 2012, 30, 231-235.	0.6	3
96	Organoids lead the cancer attack. <i>Nature Medicine</i> , 2017, 23, 1399-1400.	15.2	2
97	Hypoxia-Independent Regulation of Hepatic Erythropoietin Production by Vascular Endothelial Growth Factor.. <i>Blood</i> , 2004, 104, 2163-2163.	0.6	2
98	Abstract 123: A CRISPR/Cas9-engineered ARID1A-deficient human gastric cancer organoid model reveals essential and non-essential modes of oncogenic transformation. , 2021, , .		1
99	Introduction to themed series on intestinal stem cells and the NIDDK Intestinal Stem Cell Consortium. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 316, G247-G250.	1.6	0
100	Use of R-spondin1, An Intestintrophic Mitogen, in the Treatment of Murine Graft-Versus-Host Disease. <i>Blood</i> , 2008, 112, 3520-3520.	0.6	0
101	Systemic VEGF Inhibition Induces Hepatic EPO Production and Erythrocytosis Via HIF-2a-Dependent and -Independent Mechanisms. <i>Blood</i> , 2008, 112, 482-482.	0.6	0
102	Increased Hemoglobin Associated with VEGF Inhibitors in Advanced Renal Cell Carcinoma. <i>Blood</i> , 2008, 112, 3453-3453.	0.6	0