Thomas Glen Graeber

List of Publications by Year
in descending order

119 papers	24,784 citations	13865 67 h-index	18130 120 g-index
129 all docs	129 docs citations	129 times ranked	40990 citing authors

#	Article	IF	Citations
1	Mutations Associated with Acquired Resistance to PD-1 Blockade in Melanoma. New England Journal of Medicine, 2016, 375, 819-829.	27.0	2,430
2	Hypoxia-mediated selection of cells with diminished apoptotic potential in solid tumours. Nature, 1996, 379, 88-91.	27.8	2,223
3	Multi-omics of the gut microbial ecosystem in inflammatory bowel diseases. Nature, 2019, 569, 655-662.	27.8	1,638
4	RAF inhibitor resistance is mediated by dimerization of aberrantly spliced BRAF(V600E). Nature, 2011, 480, 387-390.	27.8	1,298
5	Interferon Receptor Signaling Pathways Regulating PD-L1 and PD-L2 Expression. Cell Reports, 2017, 19, 1189-1201.	6.4	1,256
6	An Inhibitor of Mutant IDH1 Delays Growth and Promotes Differentiation of Glioma Cells. Science, 2013, 340, 626-630.	12.6	1,014
7	Primary Resistance to PD-1 Blockade Mediated by *JAK1/2* Mutations. Cancer Discovery, 2017, 7, 188-201.	9.4	997
8	Myc-driven murine prostate cancer shares molecular features with human prostate tumors. Cancer Cell, 2003, 4, 223-238.	16.8	709
9	Multi-stage Differentiation Defines Melanoma Subtypes with Differential Vulnerability to Drug-Induced Iron-Dependent Oxidative Stress. Cancer Cell, 2018, 33, 890-904.e5.	16.8	575
10	Low MITF/AXL ratio predicts early resistance to multiple targeted drugs in melanoma. Nature Communications, 2014, 5, 5712.	12.8	503
11	Improved antitumor activity of immunotherapy with BRAF and MEK inhibitors in *BRAF* *V600E* melanoma. Science Translational Medicine, 2015, 7, 279ra41.	12.4	470
12	Cell Autonomous Role of PTEN in Regulating Castration-Resistant Prostate Cancer Growth. Cancer Cell, 2011, 19, 792-804.	16.8	449
13	Sterol regulatory element–binding proteins are essential for the metabolic programming of effector T cells and adaptive immunity. Nature Immunology, 2013, 14, 489-499.	14.5	394
14	Asparagine promotes cancer cell proliferation through use as an amino acid exchange factor. Nature Communications, 2016, 7, 11457.	12.8	386
15	TLR activation triggers the rapid differentiation of monocytes into macrophages and dendritic cells. Nature Medicine, 2005, 11, 653-660.	30.7	361
16	Type I Interferon Suppresses Type II Interferon–Triggered Human Anti-Mycobacterial Responses. Science, 2013, 339, 1448-1453.	12.6	359
17	Rank–rank hypergeometric overlap: identification of statistically significant overlap between gene-expression signatures. Nucleic Acids Research, 2010, 38, e169-e169.	14.5	357
18	CTLA4 Blockade Broadens the Peripheral T-Cell Receptor Repertoire. Clinical Cancer Research, 2014, 20, 2424-2432.	7.0	323

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19	Ibrutinib Unmasks Critical Role of Bruton Tyrosine Kinase in Primary CNS Lymphoma. Cancer Discovery, 2017, 7, 1018-1029.	9.4	302
20	Effects of MAPK and PI3K Pathways on PD-L1 Expression in Melanoma. Clinical Cancer Research, 2014, 20, 3446-3457.	7.0	294
21	Integrative analysis of the microbiome and metabolome of the human intestinal mucosal surface reveals exquisite inter-relationships. Microbiome, 2013, 1, 17.	11.1	256
22	Host immunity contributes to the anti-melanoma activity of BRAF inhibitors. Journal of Clinical Investigation, 2013, 123, 1371-1381.	8.2	256
23	Inhibition of CSF-1 Receptor Improves the Antitumor Efficacy of Adoptive Cell Transfer Immunotherapy. Cancer Research, 2014, 74, 153-161.	0.9	249
24	An integrated approach to dissecting oncogene addiction implicates a Myb-coordinated self-renewal program as essential for leukemia maintenance. Genes and Development, 2011, 25, 1628-1640.	5.9	242
25	Reprogramming normal human epithelial tissues to a common, lethal neuroendocrine cancer lineage. Science, 2018, 362, 91-95.	12.6	217
26	α-Ketoglutarate Accelerates the Initial Differentiation of Primed Human Pluripotent Stem Cells. Cell Metabolism, 2016, 24, 485-493.	16.2	212
27	BRAF Inhibitor Vemurafenib Improves the Antitumor Activity of Adoptive Cell Immunotherapy. Cancer Research, 2012, 72, 3928-3937.	0.9	210
28	Adenovirus E4ORF1-Induced MYC Activation Promotes Host Cell Anabolic Glucose Metabolism and Virus Replication. Cell Metabolism, 2014, 19, 694-701.	16.2	209
29	Phosphoproteome Integration Reveals Patient-Specific Networks in Prostate Cancer. Cell, 2016, 166, 1041-1054.	28.9	206
30	Lactate dehydrogenase activity drives hair follicle stem cell activation. Nature Cell Biology, 2017, 19, 1017-1026.	10.3	203
31	Single-cell analysis resolves the cell state transition and signaling dynamics associated with melanoma drug-induced resistance. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13679-13684.	7.1	196
32	MITF drives endolysosomal biogenesis and potentiates Wnt signaling in melanoma cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E420-9.	7.1	194
33	MicroRNA-21 targets the vitamin D–dependent antimicrobial pathway in leprosy. Nature Medicine, 2012, 18, 267-273.	30.7	190
34	2-Hydroxyglutarate Inhibits ATP Synthase and mTOR Signaling. Cell Metabolism, 2015, 22, 508-515.	16.2	190
35	Reprograming of gut microbiome energy metabolism by the *FUT2* Crohn's disease risk polymorphism. ISME Journal, 2014, 8, 2193-2206.	9.8	182
36	Metabolic gatekeeper function of B-lymphoid transcription factors. Nature, 2017, 542, 479-483.	27.8	175

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37	BCL6 enables Ph+ acute lymphoblastic leukaemia cells to survive BCR–ABL1 kinase inhibition. Nature, 2011, 473, 384-388.	27.8	174
38	MCT1 Modulates Cancer Cell Pyruvate Export and Growth of Tumors that Co-express MCT1 and MCT4. Cell Reports, 2016, 14, 1590-1601.	6.4	174
39	Glucose deprivation activates a metabolic and signaling amplification loop leading to cell death. Molecular Systems Biology, 2012, 8, 589.	7.2	168
40	Use of Genetic Profiling in Leprosy to Discriminate Clinical Forms of the Disease. Science, 2003, 301, 1527-1530.	12.6	151
41	An Essential Requirement for the SCAP/SREBP Signaling Axis to Protect Cancer Cells from Lipotoxicity. Cancer Research, 2013, 73, 2850-2862.	0.9	148
42	DNA-PKcs-Mediated Transcriptional Regulation Drives Prostate Cancer Progression and Metastasis. Cancer Cell, 2015, 28, 97-113.	16.8	148
43	Oncogene-specific activation of tyrosine kinase networks during prostate cancer progression. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1643-1648.	7.1	144
44	Phosphorylation of the ATP-binding loop directs oncogenicity of drug-resistant BCR-ABL mutants. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19466-19471.	7.1	136
45	Fyn and Src Are Effectors of Oncogenic Epidermal Growth Factor Receptor Signaling in Glioblastoma Patients. Cancer Research, 2009, 69, 6889-6898.	0.9	136
46	The GSK3 Signaling Axis Regulates Adaptive Glutamine Metabolism in Lung Squamous Cell Carcinoma. Cancer Cell, 2018, 33, 905-921.e5.	16.8	135
47	Doxycycline Alters Metabolism and Proliferation of Human Cell Lines. PLoS ONE, 2013, 8, e64561.	2.5	130
48	Signalling thresholds and negative B-cell selection in acute lymphoblastic leukaemia. Nature, 2015, 521, 357-361.	27.8	127
49	Targeted Inhibition of EGFR and Glutaminase Induces Metabolic Crisis in EGFR Mutant Lung Cancer. Cell Reports, 2017, 18, 601-610.	6.4	125
50	Bioinformatic identification of potential autocrine signaling loops in cancers from gene expression profiles. Nature Genetics, 2001, 29, 295-300.	21.4	122
51	MYC-induced reprogramming of glutamine catabolism supports optimal virus replication. Nature Communications, 2015, 6, 8873.	12.8	119
52	Pan-cancer Convergence to a Small-Cell Neuroendocrine Phenotype that Shares Susceptibilities with Hematological Malignancies. Cancer Cell, 2019, 36, 17-34.e7.	16.8	119
53	NOD2 triggers an interleukin-32–dependent human dendritic cell program in leprosy. Nature Medicine, 2012, 18, 555-563.	30.7	118
54	18F-Fluorodeoxy-glucose Positron Emission Tomography Marks MYC-Overexpressing Human Basal-Like Breast Cancers. Cancer Research, 2011, 71, 5164-5174.	0.9	113

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55	Response to Programmed Cell Death-1 Blockade in a Murine Melanoma Syngeneic Model Requires Costimulation, CD4, and CD8 T Cells. Cancer Immunology Research, 2016, 4, 845-857.	3.4	110
56	A Microfluidic Platform for Systems Pathology: Multiparameter Single-Cell Signaling Measurements of Clinical Brain Tumor Specimens. Cancer Research, 2010, 70, 6128-6138.	0.9	106
57	BACH2 mediates negative selection and p53-dependent tumor suppression at the pre-B cell receptor checkpoint. Nature Medicine, 2013, 19, 1014-1022.	30.7	100
58	Metastatic castration-resistant prostate cancer reveals intrapatient similarity and interpatient heterogeneity of therapeutic kinase targets. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4762-9.	7.1	99
59	Systemic surfaceome profiling identifies target antigens for immune-based therapy in subtypes of advanced prostate cancer. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4473-E4482.	7.1	96
60	Gene expression in epithelial ovarian carcinoma. Oncogene, 2002, 21, 6289-6298.	5.9	95
61	PTEN opposes negative selection and enables oncogenic transformation of pre-B cells. Nature Medicine, 2016, 22, 379-387.	30.7	94
62	Antitumor activity of the ERK inhibitor SCH722984 against BRAF mutant, NRAS mutant and wild-type melanoma. Molecular Cancer, 2014, 13, 194.	19.2	90
63	B-Cell-Specific Diversion of Glucose Carbon Utilization Reveals a Unique Vulnerability in B Cell Malignancies. Cell, 2018, 173, 470-484.e18.	28.9	89
64	Mitochondrial Transfer by Photothermal Nanoblade Restores Metabolite Profile in Mammalian Cells. Cell Metabolism, 2016, 23, 921-929.	16.2	84
65	A Human Adult Stem Cell Signature Marks Aggressive Variants across Epithelial Cancers. Cell Reports, 2018, 24, 3353-3366.e5.	6.4	80
66	Circulating Tumor Cells Predict Occult Metastatic Disease and Prognosis in Pancreatic Cancer. Annals of Surgical Oncology, 2018, 25, 1000-1008.	1.5	77
67	Recurrent patterns of DNA copy number alterations in tumors reflect metabolic selection pressures. Molecular Systems Biology, 2017, 13, 914.	7.2	73
68	A Metaproteomic Approach to Study Human-Microbial Ecosystems at the Mucosal Luminal Interface. PLoS ONE, 2011, 6, e26542.	2.5	73
69	JUN dependency in distinct early and late BRAF inhibition adaptation states of melanoma. Cell Discovery, 2016, 2, 16028.	6.7	57
70	Metabolic reprogramming and epigenetic changes of vital organs in SARS-CoV-2–induced systemic toxicity. JCI Insight, 2021, 6, .	5.0	57
71	Global Phosphoproteomics Reveals Crosstalk Between Bcr-Abl and Negative Feedback Mechanisms Controlling Src Signaling. Science Signaling, 2011, 4, ra18.	3.6	56
72	Visualization and interpretation of protein networks in Mycobacterium tuberculosis based on hierarchical clustering of genome-wide functional linkage maps. Nucleic Acids Research, 2003, 31, 7099-7109.	14.5	55

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73	Metabolic characterization of isocitrate dehydrogenase (IDH) mutant and IDH wildtype gliomaspheres uncovers cell type-specific vulnerabilities. Cancer & Metabolism, 2018, 6, 4.	5.0	55
74	Integrated Microfluidic and Imaging Platform for a Kinase Activity Radioassay to Analyze Minute Patient Cancer Samples. Cancer Research, 2010, 70, 8299-8308.	0.9	51
75	Combination of pan-RAF and MEK inhibitors in NRAS mutant melanoma. Molecular Cancer, 2015, 14, 27.	19.2	49
76	Inhibition of colony stimulating factor-1 receptor improves antitumor efficacy of BRAF inhibition. BMC Cancer, 2015, 15, 356.	2.6	48
77	Reality of Single Circulating Tumor Cell Sequencing for Molecular Diagnostics in Pancreatic Cancer. Journal of Molecular Diagnostics, 2016, 18, 688-696.	2.8	46
78	Vascular Endothelial Growth Factor Receptor 2 Plays a Role in the Activation of Aortic Endothelial Cells by Oxidized Phospholipids. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 332-338.	2.4	43
79	Multiplexed immunofluorescence delineates proteomic cancer cell states associated with metabolism. JCI Insight, 2016, 1, .	5.0	41
80	Tyrosine phosphorylation of RAS by ABL allosterically enhances effector binding. FASEB Journal, 2015, 29, 3750-3761.	0.5	40
81	Activation of Aortic Endothelial Cells by Oxidized Phospholipids: A Phosphoproteomic Analysis. Journal of Proteome Research, 2010, 9, 2812-2824.	3.7	38
82	COXâ€2 inhibition prevents the appearance of cutaneous squamous cell carcinomas accelerated by BRAF inhibitors. Molecular Oncology, 2014, 8, 250-260.	4.6	37
83	The Role of CD44 in Glucose Metabolism in Prostatic Small Cell Neuroendocrine Carcinoma. Molecular Cancer Research, 2016, 14, 344-353.	3.4	37
84	Comparison of Molecular Signatures from Multiple Skin Diseases Identifies Mechanisms of Immunopathogenesis. Journal of Investigative Dermatology, 2015, 135, 151-159.	0.7	35
85	Melanoma dedifferentiation induced by IFN-Î³ epigenetic remodeling in response to antiâ€"PD-1 therapy. Journal of Clinical Investigation, 2021, 131, .	8.2	35
86	Phosphoproteomic Analysis of Platelets Activated by Pro-Thrombotic Oxidized Phospholipids and Thrombin. PLoS ONE, 2014, 9, e84488.	2.5	31
87	Microgeographic Proteomic Networks of the Human Colonic Mucosa and Their Association With Inflammatory Bowel Disease. Cellular and Molecular Gastroenterology and Hepatology, 2016, 2, 567-583.	4.5	31
88	Integrin Î±6 mediates the drug resistance of acute lymphoblastic B-cell leukemia. Blood, 2020, 136, 210-223.	1.4	31
89	Plasticity of Extrachromosomal and Intrachromosomal<i>BRAF</i>Amplifications in Overcoming Targeted Therapy Dosage Challenges. Cancer Discovery, 2022, 12, 1046-1069.	9.4	27
90	A precision therapeutic strategy for hexokinase 1-null, hexokinase 2-positive cancers. Cancer & Metabolism, 2018, 6, 7.	5.0	25

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91	Cross-species comparisons of cancer signaling. Nature Genetics, 2005, 37, 7-8.	21.4	23
92	Precision oncology using a limited number of cells: optimization of whole genome amplification products for sequencing applications. BMC Cancer, 2017, 17, 457.	2.6	22
93	Mutations in an Innate Immunity Pathway Are Associated with Poor Overall Survival Outcomes and Hypoxic Signaling in Cancer. Cell Reports, 2018, 25, 3721-3732.e6.	6.4	22
94	The Impact of Ex Vivo Clinical Grade Activation Protocols on Human T-cell Phenotype and Function for the Generation of Genetically Modified Cells for Adoptive Cell Transfer Therapy. Journal of Immunotherapy, 2010, 33, 759-768.	2.4	21
95	Heterogeneity of molecular targets on clonal cancer lines derived from a novel hormone-refractory prostate cancer tumor system. Prostate, 2003, 55, 299-307.	2.3	20
96	Global alteration of T-lymphocyte metabolism by PD-L1 checkpoint involves a block of de novo nucleoside phosphate synthesis. Cell Discovery, 2019, 5, 62.	6.7	20
97	A genetically defined disease model reveals that urothelial cells can initiate divergent bladder cancer phenotypes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 563-572.	7.1	20
98	Hexokinase 2 Is Targetable for HK1-Negative, HK2-Positive Tumors from a Wide Variety of Tissues of Origin. Journal of Nuclear Medicine, 2019, 60, 212-217.	5.0	18
99	Phosphoproteomic Profiling Reveals IL6-Mediated Paracrine Signaling within the Ewing Sarcoma Family of Tumors. Molecular Cancer Research, 2014, 12, 1740-1754.	3.4	17
100	Modeling Progressive Fibrosis with Pluripotent Stem Cells Identifies an Anti-fibrotic Small Molecule. Cell Reports, 2019, 29, 3488-3505.e9.	6.4	17
101	Defining the ATPome reveals cross-optimization of metabolic pathways. Nature Communications, 2020, 11, 4319.	12.8	17
102	Somatic copy number profiling from hepatocellular carcinoma circulating tumor cells. Npj Precision Oncology, 2020, 4, 16.	5.4	16
103	Cardiomyocytes disrupt pyrimidine biosynthesis in nonmyocytes to regulate heart repair. Journal of Clinical Investigation, 2022, 132, .	8.2	16
104	Ampk regulates IgD expression but not energy stress with B cell activation. Scientific Reports, 2019, 9, 8176.	3.3	15
105	CRAF R391W is a melanoma driver oncogene. Scientific Reports, 2016, 6, 27454.	3.3	13
106	Phosphopeptide Enrichment Coupled with Label-free Quantitative Mass Spectrometry to Investigate the Phosphoproteome in Prostate Cancer. Journal of Visualized Experiments, 2018, , .	0.3	11
107	Hyperoxia but not AOX expression mitigates pathological cardiac remodeling in a mouse model of inflammatory cardiomyopathy. Scientific Reports, 2019, 9, 12741.	3.3	11
108	Interleukin 32 expression in human melanoma. Journal of Translational Medicine, 2019, 17, 113.	4.4	11

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109	Determining PTEN Functional Status by Network Component Deduced Transcription Factor Activities. PLoS ONE, 2012, 7, e31053.	2.5	10
110	Intracellular C4BPA Levels Regulate NF-κB-Dependent Apoptosis. IScience, 2020, 23, 101594.	4.1	10
111	Complexity of metastasis-associated SDF-1 ligand signaling in breast cancer stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7503-7504.	7.1	7
112	Rapid Gene Repression Triggered by Interleukin-6 at the Onset of Monocyte Differentiation. Biochemical and Biophysical Research Communications, 2000, 267, 863-869.	2.1	5
113	Thermodynamic energetics underlying genomic instability and whole-genome doubling in cancer. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18880-18890.	7.1	4
114	Phosphoproteomic Analysis of Aortic Endothelial Cells Activated by Oxidized Phospholipids. Methods in Molecular Biology, 2013, 1000, 53-69.	0.9	3
115	Host immunity contributes to the anti-melanoma activity of BRAF inhibitors. Journal of Clinical Investigation, 2013, 123, 3182-3182.	8.2	3
116	Identification of Small Molecules that Disrupt Signaling between ABL and Its Positive Regulator RIN1. PLoS ONE, 2015, 10, e0121833.	2.5	2
117	Making Mistakes Empowers Cancer Cells. Trends in Cancer, 2018, 4, 461-463.	7.4	1
118	Myc-driven murine prostate cancer shares molecular features with human prostate tumors. Cancer Cell, 2005, 8, 485.	16.8	0
119	A linear mixed model approach to gene expression-tumor aneuploidy association studies. Scientific Reports, 2019, 9, 11944.	3.3	0