

Craig H Mermel

List of Publications by Year in Descending Order

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Version: 2024-04-11

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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.

56 papers	34,234 citations	40 h-index	60 g-index
60 ext. papers	40,994 ext. citations	19.6 avg, IF	7.91 L-index

#	Paper	IF	Citations
56	Artificial intelligence for diagnosis and Gleason grading of prostate cancer: the PANDA challenge.. <i>Nature Medicine</i> , 2022 ,	50.5	14
55	Current and future applications of artificial intelligence in pathology: a clinical perspective. <i>Journal of Clinical Pathology</i> , 2021 , 74, 409-414	3.9	13
54	Interpretable survival prediction for colorectal cancer using deep learning. <i>Npj Digital Medicine</i> , 2021 , 4, 71	15.7	20
53	Predicting prostate cancer specific-mortality with artificial intelligence-based Gleason grading. <i>Communications Medicine</i> , 2021 , 1,		8
52	Determining breast cancer biomarker status and associated morphological features using deep learning. <i>Communications Medicine</i> , 2021 , 1,		7
51	Closing the translation gap: AI applications in digital pathology. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021 , 1875, 188452	11.2	5
50	Comparative analysis of machine learning approaches to classify tumor mutation burden in lung adenocarcinoma using histopathology images. <i>Scientific Reports</i> , 2021 , 11, 16605	4.9	1
49	Evaluation of artificial intelligence on a reference standard based on subjective interpretation. <i>The Lancet Digital Health</i> , 2021 , 3, e693-e695	14.4	5
48	Deep learning-based survival prediction for multiple cancer types using histopathology images. <i>PLoS ONE</i> , 2020 , 15, e0233678	3.7	52
47	Artificial intelligence in digital breast pathology: Techniques and applications. <i>Breast</i> , 2020 , 49, 267-273	3.6	41
46	Evaluation of the Use of Combined Artificial Intelligence and Pathologist Assessment to Review and Grade Prostate Biopsies. <i>JAMA Network Open</i> , 2020 , 3, e2023267	10.4	16
45	Development and Validation of a Deep Learning Algorithm for Gleason Grading of Prostate Cancer From Biopsy Specimens. <i>JAMA Oncology</i> , 2020 , 6, 1372-1380	13.4	44
44	Reply: The importance of study design in the application of artificial intelligence methods in medicine. <i>Npj Digital Medicine</i> , 2019 , 2, 100	15.7	2
43	Similar image search for histopathology: SMILY. <i>Npj Digital Medicine</i> , 2019 , 2, 56	15.7	39
42	Development and validation of a deep learning algorithm for improving Gleason scoring of prostate cancer. <i>Npj Digital Medicine</i> , 2019 , 2, 48	15.7	144
41	An augmented reality microscope with real-time artificial intelligence integration for cancer diagnosis. <i>Nature Medicine</i> , 2019 , 25, 1453-1457	50.5	95
40	Whole-Slide Image Focus Quality: Automatic Assessment and Impact on AI Cancer Detection. <i>Journal of Pathology Informatics</i> , 2019 , 10, 39	4.4	26

39	Clinical Acquired Resistance to RAF Inhibitor Combinations in BRAF-Mutant Colorectal Cancer through MAPK Pathway Alterations. <i>Cancer Discovery</i> , 2015 , 5, 358-67	24.4	211
38	Identification of and Molecular Basis for SIRT6 Loss-of-Function Point Mutations in Cancer. <i>Cell Reports</i> , 2015 , 13, 479-488	10.6	49
37	RB loss in resistant EGFR mutant lung adenocarcinomas that transform to small-cell lung cancer. <i>Nature Communications</i> , 2015 , 6, 6377	17.4	358
36	Integrated genomic analysis illustrates the central role of JAK-STAT pathway activation in myeloproliferative neoplasm pathogenesis. <i>Blood</i> , 2014 , 123, e123-33	2.2	264
35	Discovery and saturation analysis of cancer genes across 21 tumour types. <i>Nature</i> , 2014 , 505, 495-501	50.4	1990
34	Age-related clonal hematopoiesis associated with adverse outcomes. <i>New England Journal of Medicine</i> , 2014 , 371, 2488-98	59.2	2314
33	The 2013 symposium on pathology data integration and clinical decision support and the current state of field. <i>Journal of Pathology Informatics</i> , 2014 , 5, 2	4.4	13
32	Clonal Hematopoiesis with Somatic Mutations Is a Common, Age-Related Condition Associated with Adverse Outcomes. <i>Blood</i> , 2014 , 124, 840-840	2.2	0
31	Pan-cancer patterns of somatic copy number alteration. <i>Nature Genetics</i> , 2013 , 45, 1134-40	36.3	1198
30	Mutational heterogeneity in cancer and the search for new cancer-associated genes. <i>Nature</i> , 2013 , 499, 214-218	50.4	3616
29	Systematic interrogation of 3q26 identifies TLOC1 and SKIL as cancer drivers. <i>Cancer Discovery</i> , 2013 , 3, 1044-57	24.4	59
28	Prognostically relevant gene signatures of high-grade serous ovarian carcinoma. <i>Journal of Clinical Investigation</i> , 2013 , 123, 517-25	15.9	371
27	Integrative analysis reveals an outcome-associated and targetable pattern of p53 and cell cycle deregulation in diffuse large B cell lymphoma. <i>Cancer Cell</i> , 2012 , 22, 359-72	24.3	148
26	Recurrent hemizygous deletions in cancers may optimize proliferative potential. <i>Science</i> , 2012 , 337, 104-9	35.3	148
25	Detection of preanalytic laboratory testing errors using a statistically guided protocol. <i>American Journal of Clinical Pathology</i> , 2012 , 138, 406-13	1.9	19
24	. <i>IEEE Signal Processing Magazine</i> , 2012 , 29, 89-97	9.4	1
23	A Structural Basis for p53-Deficiency, Deregulated Cell Cycle and Unfavorable Outcome in Diffuse Large B-Cell Lymphoma. <i>Blood</i> , 2012 , 120, 1534-1534	2.2	
22	Integrated genomic analyses of ovarian carcinoma. <i>Nature</i> , 2011 , 474, 609-15	50.4	5210

21	GISTIC2.0 facilitates sensitive and confident localization of the targets of focal somatic copy-number alteration in human cancers. <i>Genome Biology</i> , 2011 , 12, R41	18.3	1614
20	The histone methyltransferase SETDB1 is recurrently amplified in melanoma and accelerates its onset. <i>Nature</i> , 2011 , 471, 513-7	50.4	405
19	Systematic investigation of genetic vulnerabilities across cancer cell lines reveals lineage-specific dependencies in ovarian cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 12372-7	11.5	321
18	Inhibitor-sensitive FGFR1 amplification in human non-small cell lung cancer. <i>PLoS ONE</i> , 2011 , 6, e20351	3.7	298
17	The landscape of somatic copy-number alteration across human cancers. <i>Nature</i> , 2010 , 463, 899-905	50.4	2590
16	Subtype-specific genomic alterations define new targets for soft-tissue sarcoma therapy. <i>Nature Genetics</i> , 2010 , 42, 715-21	36.3	521
15	ERG rearrangement is specific to prostate cancer and does not occur in any other common tumor. <i>Modern Pathology</i> , 2010 , 23, 1061-7	9.8	97
14	Integrated genome-wide DNA copy number and expression analysis identifies distinct mechanisms of primary chemoresistance in ovarian carcinomas. <i>Clinical Cancer Research</i> , 2009 , 15, 1417-27	12.9	217
13	Amplification of chromosomal segment 4q12 in non-small cell lung cancer. <i>Cancer Biology and Therapy</i> , 2009 , 8, 2042-50	4.6	65
12	PTEN loss contributes to erlotinib resistance in EGFR-mutant lung cancer by activation of Akt and EGFR. <i>Cancer Research</i> , 2009 , 69, 3256-61	10.1	411
11	Systematic RNA interference reveals that oncogenic KRAS-driven cancers require TBK1. <i>Nature</i> , 2009 , 462, 108-12	50.4	1614
10	Lin28 promotes transformation and is associated with advanced human malignancies. <i>Nature Genetics</i> , 2009 , 41, 843-8	36.3	641
9	SOX2 is an amplified lineage-survival oncogene in lung and esophageal squamous cell carcinomas. <i>Nature Genetics</i> , 2009 , 41, 1238-42	36.3	733
8	Predicting drug susceptibility of non-small cell lung cancers based on genetic lesions. <i>Journal of Clinical Investigation</i> , 2009 , 119, 1727-40	15.9	205
7	microRNA expression during trophectoderm specification. <i>PLoS ONE</i> , 2009 , 4, e6143	3.7	60
6	CDK8 is a colorectal cancer oncogene that regulates beta-catenin activity. <i>Nature</i> , 2008 , 455, 547-51	50.4	519
5	Comprehensive genomic characterization defines human glioblastoma genes and core pathways. <i>Nature</i> , 2008 , 455, 1061-8	50.4	5669
4	EML4-ALK fusion gene and efficacy of an ALK kinase inhibitor in lung cancer. <i>Clinical Cancer Research</i> , 2008 , 14, 4275-83	12.9	774

3	Highly parallel identification of essential genes in cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20380-5	11.5	424
2	Src family kinases are important negative regulators of G-CSF-dependent granulopoiesis. <i>Blood</i> , 2006 , 108, 2562-8	2.2	44
1	ErbB-3 mediates phosphoinositide 3-kinase activity in gefitinib-sensitive non-small cell lung cancer cell lines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 3788-93	11.5	437