

Craig H Mermel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2785632/publications.pdf>

Version: 2024-02-01

59
papers

45,348
citations

53794

45
h-index

138484

58
g-index

60
all docs

60
docs citations

60
times ranked

60557
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence for diagnosis and Gleason grading of prostate cancer: the PANDA challenge. <i>Nature Medicine</i> , 2022, 28, 154-163.	30.7	143
2	Current and future applications of artificial intelligence in pathology: a clinical perspective. <i>Journal of Clinical Pathology</i> , 2021, 74, 409-414.	2.0	57
3	Closing the translation gap: AI applications in digital pathology. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1875, 188452.	7.4	31
4	Interpretable survival prediction for colorectal cancer using deep learning. <i>Npj Digital Medicine</i> , 2021, 4, 71.	10.9	95
5	Predicting prostate cancer specific-mortality with artificial intelligence-based Gleason grading. <i>Communications Medicine</i> , 2021, 1, .	4.2	24
6	Determining breast cancer biomarker status and associated morphological features using deep learning. <i>Communications Medicine</i> , 2021, 1, .	4.2	53
7	Comparative analysis of machine learning approaches to classify tumor mutation burden in lung adenocarcinoma using histopathology images. <i>Scientific Reports</i> , 2021, 11, 16605.	3.3	21
8	Evaluation of artificial intelligence on a reference standard based on subjective interpretation. <i>The Lancet Digital Health</i> , 2021, 3, e693-e695.	12.3	21
9	Artificial intelligence in digital breast pathology: Techniques and applications. <i>Breast</i> , 2020, 49, 267-273.	2.2	117
10	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.	5.9	56
11	Development and Validation of a Deep Learning Algorithm for Gleason Grading of Prostate Cancer From Biopsy Specimens. <i>JAMA Oncology</i> , 2020, 6, 1372.	7.1	119
12	Deep learning-based survival prediction for multiple cancer types using histopathology images. <i>PLoS ONE</i> , 2020, 15, e0233678.	2.5	143
13	An augmented reality microscope with real-time artificial intelligence integration for cancer diagnosis. <i>Nature Medicine</i> , 2019, 25, 1453-1457.	30.7	179
14	Reply: "The importance of study design in the application of artificial intelligence methods in medicine". <i>Npj Digital Medicine</i> , 2019, 2, 100.	10.9	2
15	Similar image search for histopathology: SMILY. <i>Npj Digital Medicine</i> , 2019, 2, 56.	10.9	91
16	Development and validation of a deep learning algorithm for improving Gleason scoring of prostate cancer. <i>Npj Digital Medicine</i> , 2019, 2, 48.	10.9	244
17	Whole-Slide Image Focus Quality: Automatic Assessment and Impact on AI Cancer Detection. <i>Journal of Pathology Informatics</i> , 2019, 10, 39.	1.7	58
18	Identification of and Molecular Basis for SIRT6 Loss-of-Function Point Mutations in Cancer. <i>Cell Reports</i> , 2015, 13, 479-488.	6.4	64

#	ARTICLE	IF	CITATIONS
19	RB loss in resistant EGFR mutant lung adenocarcinomas that transform to small-cell lung cancer. <i>Nature Communications</i> , 2015, 6, 6377.	12.8	498
20	Clinical Acquired Resistance to RAF Inhibitor Combinations in <i>BRAF</i> -Mutant Colorectal Cancer through MAPK Pathway Alterations. <i>Cancer Discovery</i> , 2015, 5, 358-367.	9.4	265
21	Computational Pathology: An Emerging Definition. <i>Archives of Pathology and Laboratory Medicine</i> , 2014, 138, 1133-1138.	2.5	78
22	Age-Related Clonal Hematopoiesis Associated with Adverse Outcomes. <i>New England Journal of Medicine</i> , 2014, 371, 2488-2498.	27.0	3,474
23	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.	1.7	14
24	Integrated genomic analysis illustrates the central role of JAK-STAT pathway activation in myeloproliferative neoplasm pathogenesis. <i>Blood</i> , 2014, 123, e123-e133.	1.4	337
25	Discovery and saturation analysis of cancer genes across 21 tumour types. <i>Nature</i> , 2014, 505, 495-501.	27.8	2,586
26	Clonal Hematopoiesis with Somatic Mutations Is a Common, Age-Related Condition Associated with Adverse Outcomes. <i>Blood</i> , 2014, 124, 840-840.	1.4	1
27	Pan-cancer patterns of somatic copy number alteration. <i>Nature Genetics</i> , 2013, 45, 1134-1140.	21.4	1,616
28	Mutational heterogeneity in cancer and the search for new cancer-associated genes. <i>Nature</i> , 2013, 499, 214-218.	27.8	4,761
29	Systematic Interrogation of 3q26 Identifies <i>TLOC1</i> and <i>SKIL</i> as Cancer Drivers. <i>Cancer Discovery</i> , 2013, 3, 1044-1057.	9.4	71
30	Prognostically relevant gene signatures of high-grade serous ovarian carcinoma. <i>Journal of Clinical Investigation</i> , 2013, 123, 517-25.	8.2	462
31	Abstract SY25-03: Haploinsufficiency in cancer: When half simply isn't good enough.. , 2013, , .		0
32	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, 359-372.	16.8	179
33	Recurrent Hemizygous Deletions in Cancers May Optimize Proliferative Potential. <i>Science</i> , 2012, 337, 104-109.	12.6	172
34	Detection of Preanalytic Laboratory Testing Errors Using a Statistically Guided Protocol. <i>American Journal of Clinical Pathology</i> , 2012, 138, 406-413.	0.7	31
35	Developing Algorithms to Discover Novel Cancer Genes: A look at the challenges and approaches. <i>IEEE Signal Processing Magazine</i> , 2012, 29, 89-97.	5.6	7
36	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.	1.4	0

#	ARTICLE	IF	CITATIONS
37	Integrated genomic analyses of ovarian carcinoma. <i>Nature</i> , 2011, 474, 609-615.	27.8	6,541
38	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.	8.8	2,546
39	The histone methyltransferase SETDB1 is recurrently amplified in melanoma and accelerates its onset. <i>Nature</i> , 2011, 471, 513-517.	27.8	506
40	How surgical residents use social media. <i>Surgery</i> , 2011, 150, 5-6.	1.9	11
41	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, 12372-12377.	7.1	383
42	Inhibitor-Sensitive FGFR1 Amplification in Human Non-Small Cell Lung Cancer. <i>PLoS ONE</i> , 2011, 6, e20351.	2.5	338
43	The landscape of somatic copy-number alteration across human cancers. <i>Nature</i> , 2010, 463, 899-905.	27.8	3,331
44	Subtype-specific genomic alterations define new targets for soft-tissue sarcoma therapy. <i>Nature Genetics</i> , 2010, 42, 715-721.	21.4	642
45	ERG rearrangement is specific to prostate cancer and does not occur in any other common tumor. <i>Modern Pathology</i> , 2010, 23, 1061-1067.	5.5	114
46	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, 1417-1427.	7.0	266
47	Amplification of chromosomal segment 4q12 in non-small cell lung cancer. <i>Cancer Biology and Therapy</i> , 2009, 8, 2042-2050.	3.4	78
48	<i>PTEN</i> Loss Contributes to Erlotinib Resistance in EGFR-Mutant Lung Cancer by Activation of Akt and EGFR. <i>Cancer Research</i> , 2009, 69, 3256-3261.	0.9	480
49	Systematic RNA interference reveals that oncogenic KRAS-driven cancers require TBK1. <i>Nature</i> , 2009, 462, 108-112.	27.8	2,707
50	Lin28 promotes transformation and is associated with advanced human malignancies. <i>Nature Genetics</i> , 2009, 41, 843-848.	21.4	742
51	SOX2 is an amplified lineage-survival oncogene in lung and esophageal squamous cell carcinomas. <i>Nature Genetics</i> , 2009, 41, 1238-1242.	21.4	862
52	Predicting drug susceptibility of non-small cell lung cancers based on genetic lesions. <i>Journal of Clinical Investigation</i> , 2009, 119, 1727-1740.	8.2	230
53	microRNA Expression during Trophectoderm Specification. <i>PLoS ONE</i> , 2009, 4, e6143.	2.5	71
54	CDK8 is a colorectal cancer oncogene that regulates β -catenin activity. <i>Nature</i> , 2008, 455, 547-551.	27.8	594

#	ARTICLE	IF	CITATIONS
55	Comprehensive genomic characterization defines human glioblastoma genes and core pathways. <i>Nature</i> , 2008, 455, 1061-1068.	27.8	6,879
56	<i>EML4-ALK</i> Fusion Gene and Efficacy of an ALK Kinase Inhibitor in Lung Cancer. <i>Clinical Cancer Research</i> , 2008, 14, 4275-4283.	7.0	916
57	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, 20380-20385.	7.1	499
58	Src family kinases are important negative regulators of G-CSF-dependent granulopoiesis. <i>Blood</i> , 2006, 108, 2562-2568.	1.4	44
59	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, 3788-3793.	7.1	472