

David A Gutman

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

9,680
citations

41323

49
h-index

42364

92
g-index

106
all docs

106
docs citations

106
times ranked

14421
citing authors

#	ARTICLE	IF	CITATIONS
1	A Neural Basis for Social Cooperation. <i>Neuron</i> , 2002, 35, 395-405.	3.8	1,256
2	Comprehensive and Integrated Genomic Characterization of Adult Soft Tissue Sarcomas. <i>Cell</i> , 2017, 171, 950-965.e28.	13.5	738
3	Predicting cancer outcomes from histology and genomics using convolutional networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2970-E2979.	3.3	671
4	Subcallosal Cingulate Deep Brain Stimulation for Treatment-Resistant Unipolar and Bipolar Depression. <i>Archives of General Psychiatry</i> , 2012, 69, 150.	13.8	511
5	MR Imaging Predictors of Molecular Profile and Survival: Multi-institutional Study of the TCGA Glioblastoma Data Set. <i>Radiology</i> , 2013, 267, 560-569.	3.6	362
6	Comparison of the accuracy of human readers versus machine-learning algorithms for pigmented skin lesion classification: an open, web-based, international, diagnostic study. <i>Lancet Oncology</i> , The, 2019, 20, 938-947.	5.1	318
7	Results of the 2016 International Skin Imaging Collaboration International Symposium on Biomedical Imaging challenge: Comparison of the accuracy of computer algorithms to dermatologists for the diagnosis of melanoma from dermoscopic images. <i>Journal of the American Academy of Dermatology</i> , 2018, 78, 270-277.e1.	0.6	236
8	The Tumor Microenvironment Strongly Impacts Master Transcriptional Regulators and Gene Expression Class of Glioblastoma. <i>American Journal of Pathology</i> , 2012, 180, 2108-2119.	1.9	220
9	A Tractography Analysis of Two Deep Brain Stimulation White Matter Targets for Depression. <i>Biological Psychiatry</i> , 2009, 65, 276-282.	0.7	203
10	Outcome Prediction in Patients with Glioblastoma by Using Imaging, Clinical, and Genomic Biomarkers: Focus on the Nonenhancing Component of the Tumor. <i>Radiology</i> , 2014, 272, 484-493.	3.6	196
11	Tumor-Infiltrating Lymphocytes in Glioblastoma Are Associated with Specific Genomic Alterations and Related to Transcriptional Class. <i>Clinical Cancer Research</i> , 2013, 19, 4951-4960.	3.2	182
12	Voltammetric and Pharmacological Characterization of Dopamine Release from Single Exocytotic Events at Rat Pheochromocytoma (PC12) Cells. <i>Analytical Chemistry</i> , 1998, 70, 3123-3130.	3.2	170
13	Predicting clinical outcomes from large scale cancer genomic profiles with deep survival models. <i>Scientific Reports</i> , 2017, 7, 11707.	1.6	167
14	A patient-centric dataset of images and metadata for identifying melanomas using clinical context. <i>Scientific Data</i> , 2021, 8, 34.	2.4	165
15	Structured crowdsourcing enables convolutional segmentation of histology images. <i>Bioinformatics</i> , 2019, 35, 3461-3467.	1.8	151
16	Cancer Digital Slide Archive: an informatics resource to support integrated in silico analysis of TCGA pathology data. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013, 20, 1091-1098.	2.2	149
17	Process Versus Product in Social Learning: Comparative Diffusion Tensor Imaging of Neural Systems for Action Execution—Observation Matching in Macaques, Chimpanzees, and Humans. <i>Cerebral Cortex</i> , 2013, 23, 1014-1024.	1.6	142
18	Virtual dissection and comparative connectivity of the superior longitudinal fasciculus in chimpanzees and humans. <i>NeuroImage</i> , 2015, 108, 124-137.	2.1	137

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19	Genomic Mapping and Survival Prediction in Glioblastoma: Molecular Subclassification Strengthened by Hemodynamic Imaging Biomarkers. <i>Radiology</i> , 2013, 267, 212-220.	3.6	130
20	Neural correlates of attention bias to threat in post-traumatic stress disorder. <i>Biological Psychology</i> , 2012, 90, 134-142.	1.1	127
21	The Proneural Molecular Signature Is Enriched in Oligodendrogliomas and Predicts Improved Survival among Diffuse Gliomas. <i>PLoS ONE</i> , 2010, 5, e12548.	1.1	125
22	PACAP receptor gene polymorphism impacts fear responses in the amygdala and hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3158-3163.	3.3	122
23	Neurobiology of early life stress: Rodent studies. <i>Seminars in Clinical Neuropsychiatry</i> , 2002, 7, 89-95.	1.9	122
24	FKBP5 and Attention Bias for Threat. <i>JAMA Psychiatry</i> , 2013, 70, 392.	6.0	118
25	The Digital Slide Archive: A Software Platform for Management, Integration, and Analysis of Histology for Cancer Research. <i>Cancer Research</i> , 2017, 77, e75-e78.	0.4	118
26	Reduced neural activation during an inhibition task is associated with impaired fear inhibition in a traumatized civilian sample. <i>Cortex</i> , 2013, 49, 1884-1891.	1.1	114
27	Persistent central nervous system effects of an adverse early environment: clinical and preclinical studies. <i>Physiology and Behavior</i> , 2003, 79, 471-478.	1.0	111
28	White Matter Integrity in Highly Traumatized Adults With and Without Post-Traumatic Stress Disorder. <i>Neuropsychopharmacology</i> , 2012, 37, 2740-2746.	2.8	111
29	Addition of MR imaging features and genetic biomarkers strengthens glioblastoma survival prediction in TCGA patients. <i>Journal of Neuroradiology</i> , 2015, 42, 212-221.	0.6	109
30	Neural correlates of maternal separation in rhesus monkeys. <i>Biological Psychiatry</i> , 2001, 49, 146-157.	0.7	104
31	The Corticotropin-Releasing Factor1 Receptor Antagonist R121919 Attenuates the Behavioral and Endocrine Responses to Stress. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 304, 874-880.	1.3	99
32	Acquisition of Paleolithic toolmaking abilities involves structural remodeling to inferior frontoparietal regions. <i>Brain Structure and Function</i> , 2015, 220, 2315-2331.	1.2	94
33	Differences in Neural Activation for Object-Directed Grasping in Chimpanzees and Humans. <i>Journal of Neuroscience</i> , 2013, 33, 14117-14134.	1.7	88
34	The molecular basis of breast cancer pathological phenotypes. <i>Journal of Pathology</i> , 2017, 241, 375-391.	2.1	86
35	Integrated morphologic analysis for the identification and characterization of disease subtypes. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2012, 19, 317-323.	2.2	82
36	Somatic mutations associated with MRI-derived volumetric features in glioblastoma. <i>Neuroradiology</i> , 2015, 57, 1227-1237.	1.1	79

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37	Fully automatic GBM segmentation in the TCGA-GBM dataset: Prognosis and correlation with VASARI features. <i>Scientific Reports</i> , 2015, 5, 16822.	1.6	78
38	Machine-based detection and classification for bone marrow aspirate differential counts: initial development focusing on nonneoplastic cells. <i>Laboratory Investigation</i> , 2020, 100, 98-109.	1.7	74
39	Checklist for Evaluation of Image-Based Artificial Intelligence Reports in Dermatology. <i>JAMA Dermatology</i> , 2022, 158, 90.	2.0	71
40	NCI Workshop Report: Clinical and Computational Requirements for Correlating Imaging Phenotypes with Genomics Signatures. <i>Translational Oncology</i> , 2014, 7, 556-569.	1.7	69
41	Computer algorithms show potential for improving dermatologists' accuracy to diagnose cutaneous melanoma: Results of the International Skin Imaging Collaboration 2017. <i>Journal of the American Academy of Dermatology</i> , 2020, 82, 622-627.	0.6	68
42	Glioblastoma: Imaging Genomic Mapping Reveals Sex-specific Oncogenic Associations of Cell Death. <i>Radiology</i> , 2015, 275, 215-227.	3.6	64
43	Significant Neuroanatomical Variation Among Domestic Dog Breeds. <i>Journal of Neuroscience</i> , 2019, 39, 7748-7758.	1.7	64
44	Imaging genomic mapping of an invasive MRI phenotype predicts patient outcome and metabolic dysfunction: a TCGA glioma phenotype research group project. <i>BMC Medical Genomics</i> , 2014, 7, 30.	0.7	60
45	Imaging-genomics reveals driving pathways of MRI derived volumetric tumor phenotype features in Glioblastoma. <i>BMC Cancer</i> , 2016, 16, 611.	1.1	58
46	Integrative, Multimodal Analysis of Glioblastoma Using TCGA Molecular Data, Pathology Images, and Clinical Outcomes. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 3469-3474.	2.5	57
47	NMDA-induced phosphorylation and regulation of mGluR5. <i>Pharmacology Biochemistry and Behavior</i> , 2002, 73, 299-306.	1.3	55
48	Novel genotype-phenotype associations in human cancers enabled by advanced molecular platforms and computational analysis of whole slide images. <i>Laboratory Investigation</i> , 2015, 95, 366-376.	1.7	54
49	An Integrative Approach for In Silico Glioma Research. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 2617-2621.	2.5	53
50	Interactive phenotyping of large-scale histology imaging data with HistomicsML. <i>Scientific Reports</i> , 2017, 7, 14588.	1.6	46
51	A combinatorial radiographic phenotype may stratify patient survival and be associated with invasion and proliferation characteristics in glioblastoma. <i>Journal of Neurosurgery</i> , 2016, 124, 1008-1017.	0.9	40
52	Digital Pathology: Data-Intensive Frontier in Medical Imaging. <i>Proceedings of the IEEE</i> , 2012, 100, 991-1003.	16.4	39
53	Dopamine levels of two classes of vesicles are differentially depleted by amphetamine. <i>Brain Research</i> , 1998, 788, 294-301.	1.1	38
54	Validation of artificial intelligence prediction models for skin cancer diagnosis using dermoscopy images: the 2019 International Skin Imaging Collaboration Grand Challenge. <i>The Lancet Digital Health</i> , 2022, 4, e330-e339.	5.9	38

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55	MITI minimum information guidelines for highly multiplexed tissue images. <i>Nature Methods</i> , 2022, 19, 262-267.	9.0	37
56	Phosphoinositide 3-Kinase Signaling Can Modulate MHC Class I and II Expression. <i>Molecular Cancer Research</i> , 2019, 17, 2395-2409.	1.5	36
57	A DTI tractography analysis of infralimbic and prelimbic connectivity in the mouse using high-throughput MRI. <i>NeuroImage</i> , 2012, 63, 800-811.	2.1	35
58	The CRF1 receptor antagonist, R121919, attenuates the severity of precipitated morphine withdrawal. <i>European Journal of Pharmacology</i> , 2007, 571, 17-24.	1.7	33
59	Social Subordination Stress and Serotonin Transporter Polymorphisms: Associations With Brain White Matter Tract Integrity and Behavior in Juvenile Female Macaques. <i>Cerebral Cortex</i> , 2014, 24, 3334-3349.	1.6	33
60	NuCLS: A scalable crowdsourcing approach and dataset for nucleus classification and segmentation in breast cancer. <i>GigaScience</i> , 2022, 11, .	3.3	33
61	A comparative analysis of mouse and human medial geniculate nucleus connectivity: A DTI and anterograde tracing study. <i>NeuroImage</i> , 2015, 105, 53-66.	2.1	32
62	Ultrathin Slab Gel Separations of DNA Using a Single Capillary Sample Introduction System. <i>Analytical Chemistry</i> , 1997, 69, 2292-2298.	3.2	30
63	TDP-43 cytoplasmic inclusion formation is disrupted in C9orf72-associated amyotrophic lateral sclerosis/frontotemporal lobar degeneration. <i>Brain Communications</i> , 2019, 1, fcz014.	1.5	28
64	Organization of intrinsic functional brain connectivity predicts decisions to reciprocate social behavior. <i>Behavioural Brain Research</i> , 2015, 292, 478-483.	1.2	27
65	Artificial intelligence and algorithmic computational pathology: an introduction with renal allograft examples. <i>Histopathology</i> , 2021, 78, 791-804.	1.6	27
66	Demonstration of two distributions of vesicle radius in the dopamine neuron of <i>Planorbis corneus</i> from electrochemical data. <i>Journal of Neuroscience Methods</i> , 1999, 88, 153-161.	1.3	25
67	The CRF1 receptor antagonist R121919 attenuates the neuroendocrine and behavioral effects of precipitated lorazepam withdrawal. <i>Psychopharmacology</i> , 2007, 192, 385-396.	1.5	25
68	5-Aminolevulinic Acid Guided Sampling of Glioblastoma Microenvironments Identifies Pro-Survival Signaling at Infiltrative Margins. <i>Scientific Reports</i> , 2017, 7, 15593.	1.6	25
69	Radiomics Features Predict CIC Mutation Status in Lower Grade Glioma. <i>Frontiers in Oncology</i> , 2020, 10, 937.	1.3	20
70	Validation of machine learning models to detect amyloid pathologies across institutions. <i>Acta Neuropathologica Communications</i> , 2020, 8, 59.	2.4	20
71	Mapping of the mouse olfactory system with manganese-enhanced magnetic resonance imaging and diffusion tensor imaging. <i>Brain Structure and Function</i> , 2013, 218, 527-537.	1.2	19
72	Electrochemical monitoring of bursting exocytotic events from the giant dopamine neuron of <i>Planorbis corneus</i> . <i>Brain Research</i> , 1996, 733, 119-124.	1.1	18

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73	Applicability of digital analysis and imaging technology in neuropathology assessment. <i>Neuropathology</i> , 2016, 36, 270-282.	0.7	17
74	Persistent anxiolytic affects after chronic administration of the CRF1 receptor antagonist R121919 in rats. <i>Neuropharmacology</i> , 2011, 60, 1135-1141.	2.0	16
75	An Ensemble-based Active Learning for Breast Cancer Classification. , 2019, , .		16
76	Interactive Classification of Whole-Slide Imaging Data for Cancer Researchers. <i>Cancer Research</i> , 2021, 81, 1171-1177.	0.4	15
77	Behavioral effects of the CRF1 receptor antagonist R121919 in rats selectively bred for high and low activity in the swim test. <i>Psychoneuroendocrinology</i> , 2008, 33, 1093-1101.	1.3	14
78	Neuromorphological Changes following Selection for Tameness and Aggression in the Russian Farm-Fox experiment. <i>Journal of Neuroscience</i> , 2021, 41, 6144-6156.	1.7	14
79	REDLetr: Workflow and tools to support the migration of legacy clinical data capture systems to REDCap. <i>International Journal of Medical Informatics</i> , 2016, 93, 103-110.	1.6	13
80	Fusion In Breast Cancer Histology Classification. , 2019, 2019, 485-493.		13
81	Gene integrated set profile analysis: a context-based approach for inferring biological endpoints. <i>Nucleic Acids Research</i> , 2016, 44, e69-e69.	6.5	11
82	Integrating Eye Tracking and Speech Recognition Accurately Annotates MR Brain Images for Deep Learning: Proof of Principle. <i>Radiology: Artificial Intelligence</i> , 2021, 3, e200047.	3.0	10
83	Image Analysis Pipeline for Renal Allograft Evaluation and Fibrosis Quantification. <i>Kidney International Reports</i> , 2021, 6, 1878-1887.	0.4	10
84	Serotonin and norepinephrine transporter binding profile of SSRIs. <i>Essential Psychopharmacology</i> , 2006, 7, 35-41.	0.9	10
85	An interactive learning framework for scalable classification of pathology images. , 2015, 2015, 928-935.		9
86	Cellular and Behavioral Effects of D2 Dopamine Receptor Hydrophobic Eigenmode-Targeted Peptide Ligands. <i>Neuropsychopharmacology</i> , 2003, 28, S98-S107.	2.8	8
87	Web based tools for visualizing imaging data and development of XNATView, a zero footprint image viewer. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 53.	1.3	8
88	Explainable nucleus classification using Decision Tree Approximation of Learned Embeddings. <i>Bioinformatics</i> , 2022, 38, 513-519.	1.8	7
89	Assessing the Effects of Software Platforms on Volumetric Segmentation of Glioblastoma. <i>Journal of Neuroimaging in Psychiatry & Neurology</i> , 2016, 1, 64-72.	0.4	7
90	A Symmetry-Based Method to Infer Structural Brain Networks from Probabilistic Tractography Data. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 46.	1.3	5

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91	Diagnostic accuracy of whole slide imaging for cutaneous, soft tissue, and melanoma sentinel lymph node biopsies with and without immunohistochemistry. <i>Journal of Cutaneous Pathology</i> , 2018, 45, 597-602.	0.7	4
92	Microembolism Induces Anhedonia but No Detectable Changes in White Matter Integrity in Aged Rats. <i>PLoS ONE</i> , 2014, 9, e96624.	1.1	2
93	Multi-scale classification based lesion segmentation for dermoscopic images. , 2016, 2016, 1361-1364.		2
94	High-Performance Systems for in Silico Microscopy Imaging Studies. <i>Lecture Notes in Computer Science</i> , 2010, , 3-18.	1.0	2
95	Abstract 113: The TCGA proneural subtype predicts improved clinical outcome for low-grade oligodendrogliomas. , 2010, , .		1
96	Abstract 415: Differential expression of therapeutic targets across tumor micro-environments and at infiltrative margins in glioblastoma. , 2015, , .		1
97	Neuroendocrinological Research in Psychiatry. , 0, , 91-124.		0
98	Abstract LB-101: Quantitative imaging of protein expression using multiplex quantum dot immunohistochemistry. , 2012, , .		0
99	Digital imaging applications and informatics in dermatology. <i>Seminars in Cutaneous Medicine and Surgery</i> , 2019, 38, E43-E49.	1.6	0